HISTORY

OF THE

Wonderful Things of Nature:

Set forth in Ten severall Classes.

Wherein are contained

- I. The Wonders of the Heavens.
- II. Of the Elements,
- III. Of Meteors.
- IV. Of Minerals.
- V. Of Plants.

- I. Of Birds.
- VII. of Four-footed Bearts.
- VIII. Of Inf &s, and things
- IX. Of Fishes.
- X. Of Man,

Written by Johannes Jonstonus.

And now Rendred into

ENGLISH.

BY

A Person of Quality.

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The Espille 22 odicalings.

Bent Durch



The most Illustrious Princes and Lords

L. Jahulzius Radziwilius, the fole heir of the Huftridus in a prince Christopher wood and a cabout

(konge<mark>neral teingis o</mark>f messens selleb "tessus). Geberooss selvet, And plitt**.O'T** (a.)

Januszius, of most Illustrious Memory.

To the Dakes of Birze; and Dubink, Go. Princes of S.R. I.

D. Bogullaus, Count in Lefznum, Palatinide Belzenfi, Gt.

D. Uladislaus Monwid. L.B. in Dorostaic, High.
Murshall of the great Dukedome of Lithuania.

His most gracious Lords.

Most Illustrious Princes and Lords, Mil.

S all things have their revolutions, fo hath naturall History the same chance. It was held for a goddess, and much honoured in former times; witnesse the writings of Aristotles Pluy, Diefeorides, and other famous men: but now a dayes it is fo despised, that it is of no esteem at all ; this matter needs no proving. I confesse the history of Plants is adotted by many, and Mineralls are made mention of; yet I doubt whether it be entirely professed in any University or School, (except Bononia, nhere Aldrovandus mas). They that fearch out the fecrets of Nature, in curforydifcourfes, fall unfortunatly upon the thorns of subtilities and snares of questions, and do nothing but weave and unreave them with a fine thred of controversies. Whence young Schollers suppose themselves fit to be Masters in Philosophy, when they know how to quote Arifforle for fome things, confusedly and unreasonably for generall matters. Most gracious Lords, how unfit and hurtfull that is, I leave to every man to judge. As for me, what Goudanus the Mr. of great Erasmus speaks of Pliny, I dare to apply to natural History. That it is fuch, that who reads it not, is thought to be unlearned; he that diffaigns to read it, is more ignorant; and he that cannot rellish it. is most ignorant of all: And if there be any consideration had of conversation , really it is more comely and more convenient for it ; and for us to know wonderfull nature, and her motions; to learn the forces and natures of living creatures, mettals, sprouts, plants, to look into the Anatomy of man, and to contem=

The Epifico Dodicatory.

contemplate other rare admirable things in nature , than to rest satisfied in a few general things of motion, of the heavens, of meteors, and of the foul. (Johannes valent. Andr. in Instit. Magica.) and off times to agitate these things againestill we grow ridiculous. And indeed, if the general Principles of natural Philosophy be lookt into, it will appeare they cannot confift without knowledg of History. For being that universalls are built upon particulars, illustrated, demonstrated, determined, refuted by them, how can he be skilled in Philosophy, who is ignorant of History or how can be salve the many defects thereof, and constitute Axioms that are introductive to action, and search out the forms, 6762 The same will befall him as it befell Ixion, who embraced a Clowd for Juno the powerfull goddess, whom he intended to embrace, and so is reported to have begotten Centaures and Chimara's, As for what concerns action, he shall never change any other mettal into Gold, who knows not the natures of the weight, the yellow colour, of the malleablenesse, the extensivenesse, the fixt and volatile substance of them, and hath nor diligently looks into the menstruum. and feeds of minerals. He can never hope to retard old age, who hathnor first the knowledge of the nature of driness, and of the depredation of the Spirits upon folid bodies; of assimilation, and alimentation. But the straightning of nature, and daily contesting with her. is the principall thing whereunto the knowledge of the same is directcd. He is to me a true Son of natural Philosophy who knows how to augment, and multiply the Winds, to produce new mettals, to make mineral Waters; Artificial, of Vitriol, Brimstone, Allum, &c. and to bring forth new plants and animals. He is a legitimate enquiter into Nature, who knowes how to prolong life, keep back old age, change statures and complexions, raise the force of imagination upon any body, cure diseases hitherto uncurable, case pains, and can hasten the times of maturity, clarification, putrefaction, concocion, and germination, I will now fay nothing of Natures book, wherein we may behold the supreme power, as the Sun is seen in the water. For it is certain, that he is comprehended under the title of natural history, and it is fart more easy to find out his goodnesse wisdom and power, by the apparition of new Starrs, the flowing of the Sea about Maccareo, the increase of Iron in Ilva, the marriage of palme Trees, the flowring of Mulberries, the ingenuity of Elephants, the Kingdom of Bees, the harvest of Pismires, the foresight of Dolphins, and the infinite Sympathies and Antipathies of things created, than out of those vast discourses of the entity of materia prima, identity of motion, the measure of time, Ge; which are found in Altertus. Thomas, Scottin, Ponfeca, Masim, Ruvim Toletin and others. Who knows not but that the knowledge of God is the principall end of Sciences? When I had diligently confidered of these things, first induced thereunto by the writings of that reverend man D. Johannes Andreas, my much honoured friend, I not only conceived a high love of naturall Hiltory, but I thought my selfobliged to perswade young men that

The Epople Dedicatory.

were studious to do the lame. But because I observed that the The? oregicall part was thur up in hugo Volums and the practick involyed with great difficulties; and I saw that Youth that are given to: idlenesse, would hate labour; and being addicted to pleasure howould not endure difficult things; Limitating the Sons of Afendapius, (who allure the fick to use bitter things, use also lyrups confections electure aries, (%) have culled out the most pleasant things; (and frany be) doubtfull, it was done to four them on) as much as my other-occasion ons would fuffer me, which I had in Poland, being Tutorto the most noble Kurtzbachius de Zwada: as also by my proper studies in the low Countries, out of the huge volumes of Pliny, (concerning whom, I like that faying of Lipfius He that calls Pliny his works Pandells, in my opinion Shall not err; for that manread, knew all, and shut up Greece and Italy in one volume) Agricola, Gelner Aldrovandus, Libavius, Mathiolus Scaliger, Cardan, and many more writings, and by these my purpose was to invite with intreaty the studious youth, that labour so much in the common principles of natural Philosophy, to a more serious scruting of Nature: But, most illustrigus Princes and Lords, when as the manner is, I fought for a Patron, I thought this work did of duty belong unto your Name. For If it be considered; the examples of Solomon, Alexander, Mithridates, Diocletian, Francis the first King of France, and others, will teach you, that the knowledge of natural Philosophy belongs also to Princes and to great men. If you; I confesse, the hope of Poland now, and in time may be the Starrs, of that Count try, that with the beams of their light, will vouchfafe to illuminate the Church, the Common-wealth, and schooles of learning, If I; I have drawn these things forth chiefly for the good of my Nation, and I fludy other things, if God please to lend me, space to perfect my intentions. Yet I deny not, but it may be I owe more to you already than I can pay. For, most Illustrius Prince, Janusius, you were pleased at Lipsia to invite me to your Table, and to discourse with me. And the most illustrious Lord Alexander Przybkowic Przybkowsky, your high treasurer, thought me worthy, to have the offer of a place in your illustrious family, if occasion were. Most illustrious Lord, how great your Noblenesse was to me, my conversation at Lesna with the most scarned Lord Michael Henry, a most excellent Chymist, and your hof-master; and with the reverend Mr. David Ursin, a man of fingular fidelity and prudence, who fojourns with you, may fufficiently witnesse. Also, most Illustrious Lord Bogustaus, your letters are fufficient testimonies, whereby you often spake to me when I lived in Holland, and the good words you spake of me being absent, most lovingly when you departed from Lefaa. Wherefore, most illustrious Lords, whatfoever this small work is, I lay it down at your feet; and you I hope will receive a small gift of a thankfull mind, with that Heroick humanity that is bred in you; and think, that I owe you much more, but I cannot give you more than I do. God grant that the Majesty of Arts buried in our minds, may be recall'd and brought to life

were

The Epistle Dedicatory.

again by your promoting voyce, and be reftored to its former luster. As for me, if I find that you accept of these things, and that they are usefull for our students, I shall indeavour to handle these things more accurately, and to frame a compleat Circle of Arts and Sciences in a small history, that young students may have the fruit of it, and may more happily be promoted in the course of their studies. I wish it. In the mean while, that you most Illustrious Lords, may live long for the glory of God, and good of your Country. Given at London, May 15 old style, Anno 1631.

Your most Illustrious Highnesse and Greatnesse, most bounden Servant,

John Jonston.

The

The Contents of all the Chapters and Articles contained in this Book.

White I are minima

ar policy or repairs of assisting

· · · · · · · · · · · · · · · · · · ·	Page
The Contents of the First	Artic. 1. Of the Figures and light
Classis.	of the Moon. 24
Olariono,	Artic. 2. Of the Spots and Eclipse
Chapter Page	of the Moon. 23
	Artic. 3. Of the Moon's Influence
Artic. 1. Of the Creation of	on these sublunary things. 28
	Chap. 7. Of New Stars. 27
Artic. 2. Of the parts of the world,	Chap. 8. Of Astrologicall Pradicti-
and discosing of them	ons. 29
and disposing of them, 3 Artic. 3. Of unity, sigure, and soul	
	The Contents of the Second
of the world, 4 Artic. 4. Of the Duration of the	Classis.
world, past, and to come. 5	O.M.O.D.
Artic. 5. Of the hidden qualities of	Chap. r. Of Fire. 33
natural bodies. 6	Artic. 1. Of the wonderful begin-
Artic. 6. Of Gods Providence in	ing of Fires. 33
the world,	Attic. 2. Of Fires in the waters:
Chap. 2. Of Heaven, 8	34
Chap. 3. Of the Stars, 8	Attic. 3. Of Fires under the Earth.
Article 1. Of the Force and Nu-	35
triment of the Stars, 8	Artic. 4. Of the beginning or Sub-
Artic. 2. Of the Light of the fixt	terraneall Fire, 36
Stars, their magnitude and mo-	Artic. 5. Of the Miracles of Fires
tion, 10	in duration, burning, and quench-
Chap. 4. Of the Five leffer Pla-	ing,
nets,	Chap. 2. Of the Ayr. 39
Chap. 5. Of the San, 18	Artic. 1. Of the three Regions of
Artic. 1. Of the Magnitude and	the Ayr. 39
Unity of the Sun, 18	Artic. 2. Of the Infestion of the
Artic. 2. Of the Suns light, and	Ayr, 40
Eclipse, 19	Artic. 3. Of the Putrefaction of the
Artic: 3. Of the Suns Motion,	Ayr. 41
20	Artic.4. Of Attraction, cooling, and
Artic. 4. Of the Inequality of Days	penetrating of the Ayr. 42
and Nights. 21	Chap. 3. Of the water. 43
Attic. 5. Of the Four Parts of the	Artic. 1. Of the quantity and co-
Year. 22	lour of waters. 43
Artic. 6. Of the Sun's Shadow. 23	Artic. 2. Of the Taste of the water.
Art.7. Of the Suns Influence on In-	43
feriour things. 24	Artic. 3. Of the Smell of the water:
Chap. 6. Of the Moon. 24	the first and second qualities. 44
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

The Contents.

·	
Page	Page
Artic A Of the Diverse running	Chap. 3. Of an Ignis Fatuus, He-
Artic. 4. Of the Diverse running of the water. 44	lena, Castor and Pollux. 76
Artic. 5. Of the change of quantity	Chap. 4. Of an Ignis Lambens.
and of qualities, in waters. 45	
	Chan is Offichains of 176
Artic. 6. Of some other things ad-	Chap. 5. Of Lightning, Thunder,
mirable in waters. 46	and Thunder-bolts, 78
Artic. 7. Of some Floods or Waters;	Chap. 6. Of winds. 80
and of the Universall Deluge,	Artic. 1. Of the Original of winds.
Chap. 4. Of the Originall of Foun-	Artic, 2. Of the kinds and effects.
tains. 50	of winds,
Chap. 5. Of Minerall Baths. 53	Chap. 7. Of Earth-quakes. 82
Chap. 6. Of the Sea. 55	Artic. 1. Of the Cause of Earth-
Artic. 2. Of Navigation in the	quakes. 82
Sea, 55	Artic. 2. Of the place time and effects
Artic. 3. Of the depth, freefing,	of Earth-quakes, 83
and colours of the Sea. 57	Chap. 8. Of Rain, 85
Artic. 4. Of the Salt of the Sea,	Chap. 9: Of Snow and Hail, 86
58	Chap. 10. Of Dew, Manna, and
Artic. 5. Of the Ebbing and Flow-	Honey. 87
ing of the Sea. 59	Chap. 11. Of the Rainbow. 88
Chap. 7. Of the Earth, 64	Chap. 12. Of some wonderful Me-
Artic. 1. Of the New world. 64	teors. 89
Artic. 2. Of the Miracles of some	
Countries; 66	
Chap. 8. of Islands. 67	The Contents of the Fourth
Artic. 1. Of the Originall and de-	Classis,
	Claisis,
struction of Islands. 67	Chanton
Artic. 2. Of the Miracles of some	Chapter Page
Islands. 68	1 Of Mineralls in general, 91
Chap. 9. Of Mountains. 69	2 Of Marle and Potters-Earth:
Artic. 1. Of the Qualities and	92
Quantities of Mountains. 69	3 Of Terra Lemnia, Armenia, and
Artic. 2. Of Ætna and Hecla	Silefiack. 93
Mountains. 70	4 Of Salt, 94
	5 Of Allum and Nitre. 95
The Contents of the Third	6 Of Calcanthum or Vitriol. 96
Claisis.	7 Of Naphtha, Petroleum, and Mal-
	tha. 96
Chapter Page	8 Of Pisasphaltum, and the wayes
F Subterraneall Exhalations;	of Embalming dead Corps. 97
, 73	9 Of Camphir. 98
Chap. 2. Of Comets 74	10 Of Amber or Electrum. 99
Artic, r. Of the Nature and quan-	11 Of Ambergreece, Jetoand Earthy
tity of Comets. 74	Bitumen. x00
Artic. 2. What Comets are a sign.	12 Of Corall. 101
75	13. Brimstone and Stylium. 101.
	Chap.

The Contents.

Chapter Page	Chap. Page
1410f Juices that grow into stones.	2 Of Wormwood, Wolfsbane, and
102	Snapdragon. 129
15 of the Loadstone. 103	3 Of Aloes, Lignum Aloes, and
16 Of the Stones, Schistos, Gala	Camomill, 129
Hites, Gip, Selenites, Amiantus.	4 Of Ammi, Holly, Ceterach, and
106	the Strawberry-Tree. 130
17 Of Stones that reprefent divers	5 Of the Cane reed, Afterall, and
Forms. 107	Agnacath. 130
18 Of the Engle stone, Enhydros,	6 Of the Scythian Lamb, the bash-
the Touch-stone, and the Pumex	ful Plant, and Amfia. 131
stone. 108	7 Of the Balfam Tree, and Betel.
19 Of the Glaffe-makers stone, and	132
the Looking-Glasse stone, 108	8 Of Betonie, Birch, and Box. 133
20 Of the Crystal, Iris, and the Dia-	9 Of Batat, Boxera, Brufathaer, and
mond. 110	Baaras. 133
21 Of the Opalus, Emerald, Helio-	10 Of Cachi, Cacavate, Cassia, our
tropion, and Topaz. III	Ladies Thiftle, and Corallina. 134
22 Of the Amethyst, Hyacinth, the	11 Of Cinnamon and Cedar. 135
Sardonin, and the Onychile:	12 Of Chamaleon, Cloves, Gillo-
112	flowers, and Cichory. 136
23 Of the Jasper, Nephritick stone,	13 Of Sallron, Cherries, Cashi or
and an Agate. 112	Ciccata. 136
24 Of the Ruby, the Carchedonius,	14 Of the Cornel; Cypresse and
Sandastrus, Chrysolite, and some	Cucumbers, 137
others. 114	15 Of Onions, Celandine, Hemp,
25 Of Jewels found in the bodies of	and River Sponge. 138
living Creatures: 114	16 Of Hemlock, Ciacompalon, and
Artic. 1. Of the Dragon stone, the	Cocco. 138
Chelonia, the Cock stone and	17 Of Doronicum, Dragons, Olive-
Toadstone. 114	honey, Vipers-Buglofs, Eryngion,
Artic. 2. Of the Stones Chelidonium,	Euphorbium. 139
Crabs eyes, Snail Stones, and Be-	18 Of Elaterium, Hellebor, Eupa-
zar. 116	torium, Emitum and Fennel;
Chap. 26. Of Gold, 117	140
Chap. 27. Of Silver. 119	19 Of Fennel Gyant and the Fig-
28 Of Quickfilver. 120	Tree. 141
29 Braffe and Copper, 121	20 Of the Ash, Mushrooms, and
30 Of Lead, 122	the Beech. 141
31 Of Iron. 123	21 Of Guajacum, and Gentian, 142
32 Of Fossil Flesh digged up.	22 Of Broom, Ginger, and St. Johns-
124	wort. 142
	23 Of Elecampane, Turnfole, and
The Contents of the Fifth	Hinca. 143
Classis.	24 Of Impia, Juniper, and Glasse-
	wort. 144
Chap. 1. Of Plants in generall;	25 Of the Bay-Tree, Mastick-Trees
127	and Flax: 144
/	(a) Chap.

The Contents.

Chap. Page	Chap. Page
26 Of the Larch-Tree, Lilly, Loos-	3 Of the Assalon and Heron.
. Strife, and the Lute-Tree. 145	169
27 Of Malabathrum, Punic and	4 Of the Horn-Owl and Aluco.
Assyrian Apples, and the Tree	
called Manqueis. 146	5 Of the Goose, 170
28 Of Musk and Mosse, 147	6 Of the Kings Fisher, of Ducks,
29 Of Mandragora, Mallows, and	490 d Alica Direct Transcer
the Mulberry-Tree. 148	m Of Dannialas
30 Of Napellus. 148	8 Of the Owl and Cormorant.
31 Of Nystegrotus, Granum Nu-	
bia, Nutmegs, and Olive Trees.	9 Of the Feldifare and Goat-
149	Sucker. 174
32 Of the Palm-Tree, 150	10 Of the Cuckow. 174
33 Of the Plane-Tree, Apple-Trees,	11 Of the Crow. 175
and the Tree called Pater-Nofter	12 Of the Rook, and Chrysae-
151	thos. 176
34 Of Pepper, Plantain, Pimpernel,	13 Of the Pigcon. 176
wild Tanfie, herb Paris, and Pa-	14 Of the Swan. 177
pyr. 152	15 Of the Stork. 178
35 Of the Oake, Rhubarb, Rape-	16 Of the Faulcon. 179
root, and Rofa-folis. 153	17 Of the Hen and Cock. 179
36 Of Crow-foot, Rue, Rosemary,	18 Of the Crane and the Wood-
Rofe-root and rofe-Tree. 154	wall. 180
37 Of Scorzonera, Squills, Sage,	19 Of the Chough. 181
	20 Of the Swallow. 182
38 Of Nightshade. 156	21 Of the Osprey, the Ibis, and
39 Of Mustard, Satyrium, and the	the Loxias. 183
greater Saxifrage. 157	22 Of the Kite. 183
40 Of the Turpentine, and Fran-	23 Of Manucodita and Gull or
kincense Trees. 157	Cormorant. 184
41 Of wheat and Thyme, 158	24 Of the Owl and Musket,
42 Of Tobacco. 159	185
43 Of Trifoly, Teucrium, Thelypho-	25 Of Onocrotalus, and Rhino-
non, Yew, Thapfia, and Thau-	ccros. 186
zargent. 160	26 Of the Parrot. 186
44 Of the Vine. 161	27 Of the Phoenix and Wood-
45 Of Xaqua and Zuccaro. 163	pecker. 187
46 Of other miraculous Trees, 163	28 Of the Pic, 188
47 Of the prodigiousnesse of some	29 Of the Peacock. 189
Trees. 165	30 Of the Pheasant and Sparrow.
of the control of the	189
The Contents of the Sixth	31 Of the Partridge. 190
Classis,	32 Of the Ostrich. 191
	33 Of the Scythian Bird, and the
Chap. Page	Castrel. ibid.
1 Of the Eagle. 167	34 of the Infulh, and Torquilla.
2 Of the Hawke, 168	ibid.
*** **********************************	Chap,
••	

The Contents.

The state of the s	
Chapter Page	Chap. Page
35 Of Urogallus, 192	29 Of the Sheep. 229
36 Of the Bat. 193	30 Of the Wild Goat call'd Oryx,
37 Of the Vulture. 194	and the Panther or Leopard.
27 y (minutes) = 27 4	
The Contents of the Seventh	31 Of the Frog. 231
Classis.	31 Of the Frog. 231 32 Of the Rangiser, and Rhino-
Sidisis.	
Chap. 1. Of the Elk and Ram	
206	33 Of devers Serpents. 232
	34 Of the Squirril, and Ape-Fox.
2 Of the Asse. 207 3 Of the Boar, and the Archogi-	25 Of the Ame
	35 Of the Ape. ibid.
tecus, 2 08	36 Of Su and Subus. 234
4 Of the Ox. 208	37 Of the Sowe. 234
5. Of the Buffe, Bugle, and the	38 Of the Mole. 235
Bonafus. 209	39 Of Tatus and the Tyger. 236
6 Of the Camel. 209	40 Of the Tortoise. 236
7 Of the Goat. 210	41 Of the Bear. 237
8 Of the Beaver, and Colus.	42 Of the Fox, 238
211	43 Of the Unicorn. 238
9 Of the Cat and Concy. ibid.	in the state of t
10 Of the Stag. 212	
11 Of the Dogg. 213	The Contents of the Eighth
12 Of the Marmaset and the Ca-	Classis.
toblepas: 215	
13 Of the Baboon and Chamæ-	Chap. 1. Of the kinds of things
leon. 216	without blood, 241
14 Of the Crocodile. 217	2 Of Bees,
15 Of the Horse. 218	3 Of Spiders. 246
16 Of the Urchin. 219	4 Of Silk-worms. 247
17 Of the Elephant. ibid.	5 Of the Spanish Fly, and the
18 Of the Dormouse, and the	Glo-worm. 248
Gulo. 221	
19 Of the Hyana, and the Porcu-	7 Of the Crabfith, and the Shelf-
pine. ibid.	
20 Of the Buck-Goat. 222	9 00 1 0 1
21 Of the Goat call'd the Evick,	
and the Indiat Rat, Ichneumon.	
	10 Of the Sca-Urchin, the Ephe-
ibid.	merus, and the Catterpillar,
22 Of the Lion, 223	252
23 Of the Hare. 224	11 Of the Pismire. 253
24 Of the Wolf. Ibid.	12 Of the Horsleech, and Hip-
25 of the Lizard, 225	pocampus. 254
26 Of the Lynx and Lutra or	13 Of the Locust, that is an In-
Otter. 226	∫e&. 254
27 Of the Mouse. 227	14 Of the Sca-Hare, the Lobster,
28 Of the Westland the Sable	with his shell, and the Cala-
Wesil. 228	marie. 254
***	(a 2) Chapa
•	- Cinalia

The Contents.

Chapter	Page
15 Of Pearls.	255
16 Of the Fly,	256
17 Of the Nautilus or Boa	at-like
Fi b,	257
18 Of Oysters and sish with	hard
spells,	258
19 Of the Butterflye; and t	he Po-
lypus.	259
20 Of the Lowfe and Flea,	
21 Of the Beetle and the C	
•	26 I
22 Of the Scorpion,	262
23 Of Worms in Wood,	
Tarantula.	263.
24 Of Worms.	263
Article 1. Of Worms in	Brute
Beasts.	ibid.
Artic. 2. Of Worms in	Men.
•	204
Artic. 3. Of Worms in	
4 1 64 1 7 1	264
Artic. 4. Of the Indian v.	vorms ,
and the March worm.	
Chap. 25. Of Wasps.	266
the state of the s	

The Contents of the Ninth Classis.

Chap. 1. Of Hornback, Stur or Elops, of the Dac	geon
Groundling.	289
2 Of the Eele.	290
3 Of the Whale, and the Ba	rbel.
	290
4 Of the Carp, the Clupaa	and
the Conger.	29 I
5 Of the Dogg-fish.	292
	293
7 Of the Dolphin, Exocati	is and
the Fiatola.	293
8 Of Glanis and Glaucus.	294
9 Of the Herring and H	ulon.
	ibid.
io Of the Pike and Luna.	295
xx Of Manaty, and the Wh	
	206

Chap. I	age
12 Of Mirus, Mola, and Mo	ono-
ceros.	297
13 Of the Mullet and the Bar	bel.
	298
14 Of the River-Powt, and I	Lam-
prey.	296
15 Of the Perch and Sea-C	Calf.
	296
16 Of the Scale, and the In	dian
Reversus like an Ecle.	300
17 Of the Remora, and the	
Scarus.	'30 I
18 Of the Sca-Scrpent, an	d the
Sturgeon. 19 Of the Salmon and Tu	302
19 Of the Salmon and Tu	rdus.
	302
20 Of the Torpedo, and the T	unic,
	303
21 Of the Uranoscopus, and	t the
Sword-fish.	304
22 Of Some other wonders con	icern.
ing Fishes.	305

The Contents of the Tenth Classis.

Ciaisis.	
Chap. 1. Of Man in gen	erall,
	307
Chap. 2. Of Nourishment,	309
Article 1. Of the harmlesse fe	
on venomous things.	:309
Article 2. Of the eating of	other
unusuall Meats.	311
Artic. 3. Of great Eaters.	311
Article 4. Of monstrous dri	
	312
Artic. 5. Of some Secrets con	
ing Drunkennesse.	
Artic. 6. Of Bread.	
Artic. 7. Of wonderfull F	
Aller years and the second second	
Chap. 3. Of Concostion.	
Arriola v Of the Liver and S	nloon
Article 1.0f the Liver and S	ibid.
And A Office and in a	
Artic, 2. Of Humours in ge	
	317
F	Article

The Contents.

		-
Page	Chap, Pag	26
rticle 3. Of blood 318	Chap. 6. Of Vitalliation. 34	_
rtic.4. Of Urine and Reins. 320	Article 1. Of the Heart. 34	ļ٥
rtic. 5. Of Marrow. 321	Article 2. Of the Pulse. 34	ļ. ?
rticle 6. Of Sweat. 322	Artic. 3. Of Life and Death. 34	<u>,</u> 2
rticle 7. Of insensible Transpi-	Actic. 4. Of Venemous infestion	
ration. 1 323	- 1 de	LA
hap. 4. Of Increasing 324	Chap. 7. Of the internall and e.	4
rticle 1. Of Gyants. 324	ternall Senfe. 34	٠5
rtic. 2. Of Rigmies, 1 325	, Article 1. Of Imaginations of m	
hap. 5. Of Generation, 326	lancholy people. 34	
rticle 1. Of Seed. 326	Article 2. Of the force of Imag	
rtic. 2. Of menstruois Blood and	nation. 34	6
rtic. 2. Of menstruous Blood and Milk. 327	Artic. 3. Of signi and smelling	ζ٠
rtic. 3. Of the Generative parts.	イート・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Ø
329	A	
rtic. 4. Of the Female Sex. 329	Artic. 5, Of Dreams. 34	
rtic. 5. Of the noise of the womb.	Artic. 6. Of Walkers in the Night	
330	34.	9
rtic.6. Of numerous Births. 33 I	Artic. 7. Of some things observable	e
rtic. 7. Of monstrous Births. 333	concerning the Head and th	e
rtic. 8. Of the recompence Nature	Senses. 350	0
makes to Monsters. 334	Chap. 8. Of the faculty of moving	
rtic. 9. Of Nations of divers	from place to place. 35	
Forms. 338	Artic. 1. Of the wonderful strengt	b
rtic. 10. Of a wonderfull Anti-	and agility of some people. 35	I
pathy betweeen the Father and	Chap.9. Of the rational Soul; and	
the Sonne. 339	principally of Memory. 353	2
rtic. 11. Of some wonders con-	354	ł
Canning Congration 220	A CONTRACTOR OF THE CONTRACTOR	

Scalig.

Honours and year N. M. L. Week

Scalig. 1. 1. de Plantis.

Alwaies thought the compasse of Wisdome to be, as it were, the Treasury of our Mind, into which I suppose we ought to bring all the tribute of our Cogitations and Inventions; yet onely such as are honest: from whence every Man may fetch for his own use without Envy, or Grudging. For we are all one Body, and there is but one Spirit of this Body, which proceeding from God, watcheth for the common Good.

OF

To the Right on the Experience

HONOURABLE. Edvvard Lord Mountague

Baron of Kimbolton, Viscount Mandevill, and Earl of Manchester and Indian and Indiana

My Noble Lord,

His Excellent HISTORY concerning The Wonderfull Things of Nature, was written in Latin; and digested into Ten Classes, by a Native of another Countrey: who was himself indeed A Wonder in Nature, and might well make up the Eleventh Classis with the History of himself, for his generall and vast understanding in the Universe, as will appear to all men that will take the pains (so full of profit and delight) to read his writings. In his Life-time he was much conversant in England and Scotland, to fearth out the wonderfull Things in these Nations. And if Englishmen well weigh and consider it, they cannot but thankfully make their returns unto Almighty God for it, fince there is no Countrey of the world that is in all things comparable to Great Britany it felf, being adorned with fo many strange and wonderfull things. I shall not need to mention the particulars (which have furnished the Author in severall Classes with some varieties.) For I fear the world will judge that. I have faid too much already unto your Honour upon this Subjett (who is far better acquainted with the Wonders and Rarities of these Nations than my self) and that I have betray'd my own Ignorance, to offer a Translation of minesanto your Honour, who is so well versed in the Originall, and which cannot be parallel'd when it is made to speak any other Language. But I bope your Honour will excuse this Attempt, because the Authour was a great Lover of our Countrey, and therefore it was held convenient to make him a free Denizon, and to Speak English for the publick Good, which your Honour hath alwaies labour'd to advance by your honourable Affions; and Isfear not, but your Noblenesse will tenderly Embrace what is undertaken for that end; though this Translation can adde nothing to your Honour, but feeks for honour from your noble Patronage. Tet since it pleased God to afford me this opportunity to put your Honour in remembrance of me, who was formerly a Schollar at Eaton Colledge, and contemporary with your Honour; and that I once had the happinesse to be domestick Servant unto your Honour's Noble Father, who now rests in God, and who was then pleased to honour me

so much, as to have the review, and commit to the publick view his, Immortall and Pious work, entituled, Contemplatio Mortis et Immortalitatis, the fruits whereof he now enjoyes. And that his Honour, for above 40 years accepted my Father to attend so near his Person to do him Service for his bodily health ; I knowing also how much I one to the Memory of your noble Uncles, to that Reverend Prelate of the Garter James Lord Bilhop of Winchester, and Sir Sidney Mountague, who were both my Honoured Patrons; I might be taxed with high ingratitude, if having nothing better to prefent your Honour with than this Famous Authours work, (though in a meaner dreffe) I had unadvifedly dedicated it to any other Person, and overpast so fair an occasion, whereby I now expresse my due Respects unto your Honoured Father's Memory, and to all your Family, and in particular to your Honour, to whom I and my Fathers house stand so much obliged. My humble Suit is, that your Honoar will let paffe all other Considerations herein, and to regard onely the gratefull Mind of him, who shall alwayes pray God to bleffe your Honour, and your Noble Family, with all ble Sings Temporall and Eternal, in Him who is the Fountain of all ble fednesses, the Lord Jesus Christ; and Shall remain

h.

Your Honours in all obediences

John Rowland.

OF THE DESCRIPTION

Of

Chap. I.

Naturall VV onders.

The First Classis.

Wherein are contain'd the Wonders of the Heavens.

Bove there are vast spaces, and the mind is admitted into the possession of them: But so, if it bring no corporeall thing with it, if it scour of all sordid matter, and be quick agil, and seem content with what is moderate, Seneca natur. qualt. 1. 1. Prafat.

CHAP. I. Of the World.

Article 1. Of the Creation of the World.

Thagoras calls this whole Confistence of bodies notions, and the Latines from its beauty call it Mandan. Ocellus saith, it was from eternity, de universo Aristotel. 1.8. Phys. and some others. We affirm, that it was created at the beginning by the glorious Trinity; and by saith we understand, that the world was Made. The History is in the Scripture, but the perfect description in Moses's Works, Gen. 1. Nor can the consorious rod of Galen, or of the memory of the Apostles, whereof mention is made by Bishop Turribins, detract any thing from it. The dictates of the Holy Ghost cannot be salle,

the knowledge of God is free from errour. The eternity of Cardan drawn from the salt of the Sea, lib. de subtil, is as easily rejected as propounded. It is a weak proof, that all pure things were made at first; I adde, and a false one. Chrysippus apud Laertium amongst the Stoicks, speaks boldly: If there be any thing, that can do that, which a man with his reason cannot do, that thing is greater, stronger and wifer than man; but a man cannot make heavenly things: Therefore he that made them excells man in Art, Counsel, Prudence and Power. What therefore can that be but God? All that is, was made of nothing, and by the Word let it be made. Empedocles is false, concerning the concourse of Atoms: (of matter and quantity co-eternal) also that is false in Plutarch, That the essence and matter whereof the world was made, was not first created, but was alwayes ready for the workmaster, and was fit to be comvounded and digested, and made, as far as possible it might be to his own likenelle. But nothing was with God, before he made it, that was not God himself. He it is, that calls things that are not, as though they were. Hermes in Pimander, The workmaster made the whole world, not by hands, but by his word. Moses writes, that all things were made in fix dayes; Some think this was onely for order fake, and for our instruction. Augustine thinks, all things were made together in a moment. Philo writes acutely of the making of the World. Mofes faith, The World was made in fix dayes; not that God the Maker of it needed time to do it, (for God is not onely thought to work by commanding, but by contemplating) but because it was needfull that things thould be created in some order: and this is a proper number for order; and fix amongst all numbers is fittest for generation, for it is the first perfect number after a Unite, consisting of parts whereof it is made; of three that is one half of it; and two a third part, and one a fixth part, being of a masculine and feminine nature. As for the time, it is supposed to be Autumn, as it is collected from the Feast of gathering in of fruits in the end of the year, and from the moneth Tilri, which answers to September, Bartolin. c. ult. gener. Phys. Some fay, the Spring : Ambrofius in Hexametro: Thence it behoved the world to begin, where there was a Spring-like temper fit for all things. whence it is that the year sets forth the Image of the world at first beginning, and after winter cold, and frost and mists, the clearer brightnesse of the Spring Spines forth more than ordinary. Macianus Scotus puts the Lords Day on the 15th of the Calends of April. Macrobius describes the Generation. His words are; In the making of the World, Aries was in the middle of the Heavens; the Moon in Cancer; the Sun rose with Leo; Virgo with Mercury; Libra with Venus; Mars with Scorpio; Jupiter was in Sagittarius; Saturn in Capricorn. We shall say with Firmicus, The Day it was made upon, is uncertain. For the time is different in places; nor was there any then. For all fecular things began with the World. If you look at the end, it is the glory of God, and the good of Man. Look which way I will, I see exquisite marks of Gods Wisdome, Goodnesse, and Power. Contraries are here parted, and yet coupled by bands in the mediums. Hence his wisdom appears; The actions

Chapit. Of the parts of the World.

have recourse in order; hence appears unity; there is neither old age, nor change nor wearinefle; thence his power is manifelt : every thing had a sufficient perfection given to it, and is content with it; thence we see his goodnesse. They are all from God, and they tend unto God: thence is glory.

Article 2. Of the Parts of the World, and the disposing of them.

TEe need not be over-curious for the matter of it. 11/It contains the Heaven with the Stars; the Elements, Meteors in the Avr. Fishes in the Waters, Minerals in the secrets of the Earth's Plants. Animals and Man are in the upper surface. They are all materiall and corporcal things, which wife men include in it, and they are all realities. Heaven is thought to be uncompounded, the Elements ferve for composition, Meteors are imperseelly mixt; Minerals perfectly, but without life; Plants with life, but without sense. Bealts with life and sense, but without reason: Man with life, sense and reason, is the compendium of all, a little world in the great world. The perfection is as great as the matter could bear; the Workmalter. could give more, but the Matter was not capable of it, Scalig. Exerc. 243. [.3. The goodnesse is confirmed by the decree of God: Gen. 1. versult. He saw, and behold, all things were good. The manner of ordering them in this great Engine, Zeno in Lucrtius amongst the Philosophers hath declared; That God at first, whilest he was alone, changed all essence by Ayr into water; and as in the birth the seed is contain'd; sa God who is the seminal cause of the world, left such a seed in the moustures that should afford an easie and sit matter for this work ; for the generation of things afterwards. Then he first produced the four Elements, Fire, water, Ayr, Earth, Go. Trifmegistus in "megi λόγω, speaks true; There was, saith he, infinite darkneffe in the deep, and the water, and an intelligible spirit were by Divine vertue, existing in the Chaos; wherefore the holy light was taken away, and the Elements were congealed and fastined beneath of a moult substance, and all these embraced, and were in love with a seminall nature. And when all things were undivided, and not fet in order; they were parted; and things that were leightschofe the uppermost place ; heavy, the lowest; moyst; the dry Land; all of them being divided by the Fire, and banging in the Ayr, and carried by it. And the Heaven appeared in 7. circles, and the gods appearing in the Aspetts of the Stars, with all their figns, and the whole circumference was distinguished, and with the gods that are in it was circumforiled with the circumambient Ayr, and carried by a moving Divine (pirit: And every God by his own vertue produced what he was commanded, and there were brought forth four-footed beafts, creeping things, Fishes, Birds, and every seminall plant: and graffe and flowers, and every herb, contain'd in thom: selves feeds of regeneration: and the Generations of men were for the know. ledge of Divine things, &c. But Mofes fets it down most truly, Gen: Chap, I.

Heaven and Earth, and Light, the first day are: The Firmament dividing waters second were. The third the waters parted, Plants, the Earth: The fourth to Sun and Moon and Stars gives birth. The fifth gives Fishes, and all kind of Birds: The hath brought Cattell, all made by Gods words: Then Man was made; the seventh rest affords. Danaus in Phys. Christiana.

Artic. 3. Of Unity, Figure, and Soul of the World.

Emocritus and Empedocles supposed, that other worlds were made successively of some indivisible small seeds. Hence Alexander complain'd, that he had not yet conquered one. Origines, weil de Alis. faid they were infinite successively; that the Elementary world was made every 7 thousand years, and the heavenly once in 4900 years. For the Sabbath for the earth, and the yeare of Jubilee was wont to return every 7th year, and every 49, yeares. Leo Hebraustoucheth upon this opinion, Dialog de Amore ; where he faith, The inferior world by the opinion of the old divines is generated corrupted and renewd once in 7000 years. But because we see nothing moved in it consusedly, nor any thing fet without it, whither shall we go out of it? Our desire is answered. For in the end of our cogitations, the same question alwales returns. Wherefore we fay, that there is but one world, and the figure of it is plain, like to a skin firetched forth very large, faith Basilius. But Plato held, that it was like a Circumvex, pointed with many Angles. Sanchumates Berytius the most ancient writer of the affaires of Phanicia, said it was like to an Egge, wherefore at the feasts of Bacchus they religiously adored an egg, as the emblem of the world. Some compare it to the greek letter n, in which the outward lineament represents the Ocean, Dalechamt, ad 1, 2. Plin, hist, c, 3. But that it is made like a Globe, not only the name and consent amongst menthat call it so, but every mans eyes can tell him; for it is convex, and one half, look upon it which way we will. Plato. Of which living creatures he would have all other living creatures contain'd, he framed that of fuch a forme, that in that one all the rest might be contain'd. The Storcks would have it to be a living creature, endued with scuse and reason. Hence grew that description by its parts. The Starr, (saith Plutarch of the face of the Moon) are shining eyes in the face of the world, they run their race; the Sun is in place of the Heart: as this affords blood and spirit, so that sends forth heat and light; the world useth the Earth and the Sea, as a living creature doth its belly and bladder; The Moon between the Sun and the Earth is as the Liver between the heart and belly, or some soft bowel, and attenuating its respirations by some concollion, and purgation, scatters them about. Elegantly, but not truc! For the world hath no known foul; if we afcribe any thing to it, all will be bur a diffused force, common to all, and in proportion we may call it a foul. For what the foul is in bodies, the same is force diffused in the universe. Combach. in Phys. cap. de Mundo.

Artic. 4. Of the Duration of the world past and to come.

He duration of the World both past and to come is sought out by many, but no certainty is proved. The Ægyptians formerly boasted of 48000 years past, in their History; the Chaldan's 4700003 The East Indies 700000. The Ægyptians are disproved by their difagreement: one of them reported 20000, to Solon that asked him's another 1300 to Herodotw. The Chaldeans alleage that in 48862 there have been only 832 luminaries: But the doctrine of Astrono. my thewes these to be trifles. If this were not, it might be; yet Dio dorm in Angulum his time, fearched for the greatest antiquity of the Agyptians, and found fearce 4000, Califlhenes Nephew to Arithorle By his fifter, found the Chaldeans not to be 2000; Simplicius reports its Amongst our Chronologers, the Christian Eposhe is uncertain, nor is there any beam so cleare, to discusse these Clowds. Abraham Buchok zerus, with Mirandula and Reufnerus, saith, it was created before the faid Epoche 3970 yeares, Buntingius, 3968; Mercator, 3967; Scaliger, 3947; Beroalaus, 3929; Broughtonus, 3928; Pareus, 3927; Pavellus 4022. Hitherto Scaliger hath been preferr'd, yet it is thought that Pavellus hath discovered his impersection. The uncertainty concerning its end is greater. Macrobius defines it by 1,5000 years. Orphelis by 12000, Cassander counts 30 times 6000000. Rerbsus, as Senece saith, contends that the earth shall be burnt, when all the Starrs meet in Cancer, and a flood should be in Capricorn. A Amongst Christians, Liborovius will have it to be 1666; Rofsinus 1656; (Libavius in declam, de comet, anni 1604). Cufanus 1700, or else the space that goes before 1734. That as after the first Adam, (they are Cusanus his words) the consumption of sin came in the 34th Jubile by the waters of the flood, in the days of Noah, according to Philo; so we conjecture that after the fecond Adam, in the 34th Jubile Shall come the consumption of sin by fite. (Nancelius cites it in analog. Microcolm. cum Macrocolmo, luli) Augultinus and Lastantius define it by 6000 yeares. Alftedius holds the term to be uncertain, but it is certain, it shall not be before the yeare of Christ 2694, (in Thesauro Chronolog. c. 6, et diatrib. de mille annis). A certain friend dreams of some thousands. Napeirus is of one mind, Copernicus of another. What shall we say to this? It is not in man to declare these things, or to know them; the Angells know them not, nor yet the Son of man. God hath kept these times in his own power. Thomas speaks true, All those that undertook to determine the time of the end of the world, have been found false, and so shall all that shall undertake the same hereafter. Be the time never so uncertain, yet certain it is, it shall have an end. The word of God saith it; The Heavens and the Earth Shall passe away, Luc. 21. 23. Christ, in Mathem, 23, foreshews the forerunning figns. The Stoicks fer down the manner in the Bood, and in the confuming by fire, and the Hebrers feem to confent. For they affirm that the Sea should ascend above the Mountains tops 40 cubits (Petrus Comeffor in Nancelius). Ariftotle and Plato universally de-· (*,

Artic.

naked in Winter, Pontanus his dog would eat, no Cocks flesh ; bur. Scholtzius his, would houl lamentably when the strings of a Lute were wound higher. But when they were tuned as they should be, and founded harmoniously, he was quiet. I say no more. Libavius de Antipathia rerum. The cause of all these things is hid; But it is certain that the most eminent of them arise from those qualities, that both agree with their forms, and are moved by the force of them, The knowledg of fecret forces appertaine to natural magick, wherein we had need of a wonderfull caution. Alvernius lib. de universa writes that Turnsoil will make men invisible, and that quicksilver pur between two reeds will hinder witchcraft; That Rue taken away by stealth, & Basil planted with a feast will grow the more abundantly. faith Trievius de Demon, decep, and he adds that 7 grains of a certain

Chapit. Of Gods Providence, Oci 10

ny it. It is known by the word of God to Christians, that the world perifhed by the flood, and the burning of it, is expected. For St. Peter faith, c. 2, and 3, but the Heavens that now are, and the earth are referved for the fire at the day of Judgment. But whether there shall! be another world differing effentially from this, or this shall be renewd wherein we live, is a question. The Apostle saith, The sashion of this world passeth away: the holy Fathers, Basil, Eusebius, do imply an alteration; and Seneca, in his disputes. Every creature shall be generated anem, and a Man Shall be given to the earth, that knows no wickedne se and bred from better principles : yet he adds, Their innocence [ball not last longer then while they are first bred; for wickednesse will soon break in. He differs from us, because he makes eternal innovations; which we admit not. The censure of Tatianus against the Gentiles. Doth any man determin God to be a Body ? I think, He is without a Body. Do's he think the world incorruptible ? I think, It is corruptible. That it | hall be burnt by degrees ? I think it shall be but once for ever.

Artic. 6. Of Gods Providence in the world.

propounding them, Delrius I. 1. disquis. Magic. t. 3.

hearb cast amongst the guests at a drinking seast, will make them

fight up to the cares in Blood. These are fooleries, and confuted by

Artic. 5. Of the hidden qualities of natural bodies.

YOd was not pleased onely to make all these things, but he would Thave them all under his Government, and Providence. Hence comes the preservation of the beings and vertues of things; and the disposing of them all after the freedom of his will, the wife ordering of all things. In this are the ends fer orderly, the means to these ends are exquisitely disposed, and being disposed, are most wisely directed ed. This Providence was so often and forcibly maintain'd by the Stoicks, that they became a sport and a jest to their adversaries, who call'd this, The fatall old wife of the Stoicks that foretold future things. Epistetus in Arrianus, speaks admirably; what conferns the gods, some deny there is any God. Some fay there is, but an idle sareleffe Deity, that provides for nothing. There is a third fort, that maintain there is a God, and that his Providence governs, yet onely in great and heavenly matters, but in no earthly thing. A fourth fort fay, That he takes care for beavenly and earthly things, but in generall onely, not for particulars, and for every one feverally. But there are a fifth fort, wherein Ulyfics and Socrates, who aff firm, That I cannot, O God, be hid or deceive thee in the smallest motion. There is here no place for fortune, nor for cafual and needless violence, That Eternal Light spreads his beams every way, and at the same instant he pierceth into all the windings and depths of the Heavens, Earth, and Seas; nor is his Divine Nature onely President over all these things, but is in them all. Burney B. C. B. B. B. B. B. B. B.

Said, that natural bodies were containd in the world; now I fav Athat they are so ordered that they have their peculiar vertues, and in some things they are partakers. Every one hath its nature, they are containd in place, measur'd by time, defined by number, they begin, they perish, they move, augment, diminish, they act, and fuffer. Amongst the rest hidden qualities are admirable according to which there is either consent in things, or jarring and discord; Philosophers call this sympathy and antipathy. The first and second qualities are no causes of these things; examples of them are spred through the whole field of Nature. The raging Elephant growes calme if he see a Ram; and if he see a Rhinoreros, he is angry. The tender sless of theep bitten by a Wolfe, and the wooll woven also, will breed Worms. Cartel almost dead, and men faint, are revived by the smell of bread. Pencerus de divin. sett. de Astrolog. Porphyrio a bird will dyerif it look on a Whore. Woodpeckers will, with grasse, drive our wedges. A Stag draws out Arrows with dittany. The venome of the Tarantula is driven away by the found of Musick and dancing by measure, Alexander ab Alexan, I. 2. genial, dier. Many will sweat if a Cat be present. Quercetan in dietetica, and make water at the found of the harp, Scalig. excerc. 344. s. 6. One was driven from a feast at the sight of Apples, if we credit Quercetan. A boy's lips swelled by cating of eggs, and his face was spotted with black spots. Marcel. A Monk, saith Lusitanus, swounded at the smell of a Rose. Another hated bread and flesh, and lived only upon eggs. One espied an old woman at a feast and could not endure her, and when he was forced to flay, he was carried forth dead. One (wounded with the combing of his hair. Demohon the builder of Alexandria was cold in the Sun or a hot Bath, and hot in the shade. The same is said, of a certain Idios that clothed himself with skins in Summer, but went

CHAP. The state of the s

Chap. 3.

gent in a matter A. To extremely a fine to the **v** C**CHAP_{ENT}M**ent to general mentioned at the **CHAP**

of Heaven; the land of his substitute

He Wisemen ascribed the first place amongst bodies to the Head L vens; both because it is simple, and also is set in the highest place as principall. Some write, that it is of the same nature with fublunary things, and not amisse; for the Scripture writes, Pfal. 102. that it shall max old like a garment. Also the generation of new Stars feems to intimate as much: All the space in these that reacheth to the fixt Stars, is filled with ayr; and it is so much the more pure, light, and hot, as it comes nearer unto them, &c. If you consider the magnitude, the Heavens are the greatest body; the Earth is but a point in comparison to it. The number is but one; yet Astronomers have distinguished it into divers orbs, Eudoxus into 23. Calippus into 30. Aristotle 47. Ptolomy 31: Regiomontanus 33. The common opinion is, that there be Ten; to which if you adde the Heaven of heavens, (Aquiba call'd it, the marble Table of the World, Maimon. 1. 1. perplex), they will be eleven. The confideration of the Tenth amongst them is wonderfull; For they fay, it is ten times greater than the eighth sphere, and than the earth 1960; and they say, that in 24 hours it goes 469562845 miles, Bodin. 1. 5. Theatr. The Miracles of the 9th are not small. The Antients say, it proceeded one degree in one hundred years; the Neotericks have observed 44 minutes, The period of its motion is 49000 years, if we credit Alphonfus; but Copernicus faith, 25816. This period is call'd, the great and Platonick year. It is a wonderfull Engine, and all the great works of men compared with it, are lesse than nothing. Plato 1. 10. de Repub. imagined a certain spindle, as bright as a Diamond, contain'd in 8 wheels; and he makes the Heaven to hang by that, left it should fall. But alas poor man, why so? There is a God that supports it; who gave it a power to stand fast at first, when he made it : yet this shall go into smoke, and shews us, that nothing is stable contain'd in this World.

CHAP. III.

Of the Stars.

Artic. 1. Of the Force of the Stars, and Nutriment of them.

Ahomet faid, That the Stars hang in the Ayr by golden chains: That the Workmaster set them in the Heavens, bright & round, we religiously acknowledge; that they were made for signs and seafons; All men know, that they shine and communicate their vertue to sublunary things; which is done, by sending forth their beams: the

will of man, and works of Artificers, are out of this account. There is in these no mixture of new qualities; but onely an accidentall species is induced to a body ready made. The mind is free from the Elements; if it suffer any thing, it is by the mediation of the Instruments of the body, the temperament whereof Mens manners easily follow. Hence you may see an errour; That the charasters were formed by a certain position of the Heavens, and are moved by a stronger power from the Heavens. Plato saith salse, That the Souls before they come into the bodies were made subjets to some Star. These are toyes, That Stars are appointed for every one of us, bright Stars for rich men; little ones for poor men; dark ones for desects; and some for every mans condition, Pliny 1.2. Histor. Natur. c.8. There is not so great Society between Heaven and us, that for our destiny the brightnesse of the Stars should be mortal. Our chance is in Gods hand: It is salse, That Jacob tead his sons destinics in the Tables of the Heavens.

Office writes elegantly of one white, in an Epigram:

Vhite in the Stars did oft his wife behold,

That she was chaste and good he all men told;

He look't to find her in the Stars once more,

And then he did proclaim her for a whore.

But that thy wife was common, though thou see
Through all the Stars, not one declares to thee.

Cleomedes in lib. de nunnime sevelue, speaks something of the nutriment of the Stars, as Dalechampius cites it, and the Stoicks observed the same Laertius (in Lipfius in Manudutt and Phyfiol. Stoicam.) faith, That thefe fier Stars are fed and nourished, (the Sun and Moon, and the reft) the Sun by the great Sea, as being the great Torch, and a kind of burning endued with understanding: But the Moon, by fresh maters, and such as may be drunk because it is mingled with the Ayr, and is near to the Earth. Wherefore Macrobius in Somnium Scipionis ascribes it to providence, that the Ocean was placed under the torrid Zone. That all that space which the Sun and the rest of the Planets and the Moon wander up and down in. on this side and that side of the Eccliptick, may have moysture for their nourishment. The opinion seems absurd at first ; yet Ambrosius 1. 2. Hex.c.3 . thought fo; nor doth Libavius 1. 5. de origin. rerum, seem to deny it. Lucianus faith, there shall be a common bone-fite for the world. Whence shall this burning be, but that moy sture must fail ; and that cannot fail, but for nutriment. Yet fee that you make not a combustion amongst the Stars, by assuming an ætherial spirit into the nature of the Stars,

He 8th sphere contains the fixt Starrs, and those in number I numberlesse. Along time men observed 1022, which the Thanicians reduced to constellations. Braheus added 74, Houtmannus 14, about the Antartick pole. Bartholin. de Calo. c. 3. Alfo they are of diyers magnitudes, yet all greater than the Earth, except the fixt magnitude. The magnitude will give you the vast distance: we see them like sparks of fire, yet Astronomers reckon 14000 diameters of the earth. They have their own natural light which thines to men in the night, not that it is put out in the day by the Sun beams, but that the medium being enlightned admits of the more forcible species, the fesser and weaker is carried through the medium unperceived. Scalie. exerc. 6. 2. Historians observe that they have been seen in the daytime, and not without fome token. In Commodus his times they were feen a whole day, fome were drawn forth at length, as though they were fastned in the Ayre. The slaughter of the Parthians followed, civill warrs, and the killing of five Emperours in one year. The same thing was seen in the raign of Constantius, from Sun rising till noon, about Sun set the Sun sirst appeared with crooked horns, and then but halfe, some suppose it was an Eclipse. Cardanus saw two at Millan, 1. 14. de varieiat. rer. c. 70. One Anno 1511, and the French were driven out of Italy: another 1535, and the death of Francis Sfortia followed, and because he died childless, the Prince was: changed, Charls took the Government. Lastly the 9th of June, this yeare there was one seen in England before noon, when a solemn. thanksgiving was made to God for the birth of the Prince of Wales. we were certified that some French men saw the same at Diep the fame time. There is a wonderfull matter in their motion. Besides their own, which is made from North to South upon the poles of Aries and Libra, they are said to be drawn by the 9th sphere from west to cast. Hence it comes that they are all moved from their places. Braheus faith in a hundred yeares they are drawn back, one degree, 25 minuts. Meto, who florished in the 130th yeare after Thales, obferved the Starr of Aries to be in the Equinoctiall. Timochares, that it gain'd two degrees, Hipparchus four and nine minuts, Ptolomy 6, and 40 minuts, Albategnius 18, and 12 minuts, Alphonfus 23, and 48. minutes, Vernerm 26, and 54 minutes, Rodinus 28 and 20 minuts : The bright one in the utmost tayle of the little dog, which is for the pole Starr, Hipparchus observed to be 12 degrees distant from the pole of the world, we fee it but almost three now adays. Cardan faith, that the heads of the motions of this Orbe will be not only in contrary places, in the year 1800, but the motion will be contrary also, and he collects from thence that there will be strange alterations in the Christian religion, de varietat, rer. 1, 2, c, 3,

Of the Five Planets. the fixth voc. The transport and transport to the fixth of the fixth o

CHAP, IV. 1001, 10

He wandring Stars are called Planets. The Ancients account L ted them to be seven; Those of our times have added four about Jupiter, and no fewer about Saturn. Each of them hath its own sphered its nodes, epicycle, and its aquant. Their motion is more free than the rest: sometimes they are present with mortals, sometimes they depart from them. Hence arise the names of Aux, and Absis, Pere. gaum and Apogaum amongst Afronomers. But so great is the difference, that Saturn requires 30 years, Jupiter 12, Mars 2, Venus 360 dayes, and Mercury as many. Venus is a Planet, by her firnames that Ands in emulation with the Sun and Moon. For riting before the Sun, the is called Lucifer, like another Sun bastening the day, a spen thining in the Vyest, the is called Velper, or the Eyening Stat, as proposing the light, and standing in place of the Moon, Pun. 3. The caule of their wandring motion, some aferibe to the Sun, who cit ther by its beams fets them forward, or removes them on one five, of

departing from them, lets them remain in their own places.

Extraordinary influences, Medicaments, Baths, Phleboromy, Plants, ings, choice of businesses, change of the Ayr, are by fome tyed to the hour of their position. It is observed, that the Plague growes figure about Wittenburg, when Saturn moves in Leo or Sagittarind and abates by the accesse of Mars; the same thing is threatned to them at No. rimberg, by the figns of Gemini or Sagittarius. Those that Mars and Saturn being in the angles, assayle with a quartile alped, are shorted lived; if they passe their Infancy, it will be difficult for them to attain the flower of youth; their conjunction increaseth their force.

If Mars and Venus are in conjunction when one is born, the concupiscible appetite is contaminated; more, if it be in Coprisonn, and Mercury be prefent. By the concurrence of Mars, Mercury, and the Moon, men have fubtile wits, Pencerus I. de divinat, f. de Alralogia. But this is a leffer conjunction. That is a great Conjunction, which is made by Saturn and Jupiter; one happened in the seventy year and 200 dayes. The figns of the Zodiack are run through, that at the beginning of the first maceing there may be a conjunction of the Planets; the Learned called it a revolution, Allted. in the fauro Chronolo-

There are feven reckoned fince the World was made, and constant observation light proved, that none of them ever came without some notable alteration. All things were heroicall in the first conjunction i at the second, men despised Noah's preaching; at the third, there were great pressures in Egypt. The sourth was 17 years after, when Rome began to be built: the fifth was in the 26th year of Christ. The Billiops of Rome pretended the Donation of Pipip and Constantine, when

CHAP.

18

the fixth was. Th seventh was in the fign of Sagittarius, in the year I was born in, 1603, the last was in Leas 162 32 what this shall produce, God knowes.

The City of Rome about the 800th year under its fiery fight, was thought to be renewed. At the beginning of that, happened the differfing of the lews; what if about the end of it, the calling of them again may be?

Of the Sun.

Artic. 1. Of the Greatnesse and Unity of the Sun.

Picurus thought the Sun to be an accidentall Globe, and fire, but an earthly groffe Body. Anaximander thought it was red-hot Irons the Peruvians think it a GOD; and so did Aurelianus a Prince of old; May the gods do it, and the Sun the created god, in Vopico, Porphyry writes, that it was adored in the East under the name of Mytra, in his Comment. de Nymph. cultu. And Macrobius shews, 1. 1. Saturn. gap, 17. That all the gods of the Gentiles were extended to the Sun. After him Cluverius Polyhistor, in Germ. antiqua. So great reverence was there toward it, in the minds of the Gentiles. It is with us the Principall Planet, and the great Luminary. It is greater than the Earth 167 times; and it is distant from the Earth in its Apogaum, 1012868 miles, Kecherm. in his Astronomy. It is but one, and where is there room for more in fo great a magnitude? yet there are more also. That is but one of which we speak, the rest are but figures and draughts of this one beautifull Sun. The Philosophers call them Parelia, they have alwains some future signification, as we frequently observe, and find it.

In 1514, there were 3, feen; in each there was a bloody fword. The Reformation followed. So, many were seen in Helvetia, in 1528:

a wonderfull Famine was the sequel of it.

In 1532, at Venice they were seen with two Rainbowes opposed to the Sun; one presently vanished, but the other was seen for two hours, Cardan. 1. 14. de Varietat. Rer. cap. 70. The Suns themselves were transparent, the greater was Southward, the lesse Northward, increasing.

In the year 1314, before the War of Lodowick of Bavaria, and Frederick of Austria, more Suns were seen: they signified the diffentions of the Electors, and their falling to fides. Peucer, in Meteorol,

Before these troubles we saw it; a Comet with a fatall tail followed. Because the Empire of Nero had the same beginnings, the surve event might eafily be foreknown.

and admir executions is any sale of the second the second second and ing ((art) ale . Artic: 2. Of the Suns light; and Hellys. an arechara & the literacy of market reach

He Thalmudifts hold that the light of the Sun was feven times greater in the Creation, but was lost afterwards. We feet very great and ruling almost every where. For the Sun-beams enlighten and enliven all things. Cardan maintains that by the force of it, the Southern parts are pressed down lower, but whether it be so every one may judge. And though at Rhodes or Syracufe there never be a day that the Sun is not seen in some parts of it 3. Plinel. i. Cap. 62, yet it is certain that the Suns light is often intercepted. When Conflantine was blind, the Sun did not thine for 17 dayes. In Plinies time Le was often 12. dayes, in Lea's time 4. dayes, So never feen that Marriners lost their Course Maiol, Celloq. 1. But this was only a Clouding. An Eclips is formwhat more, when the Suns beams are turned away from by inrerpofing of the Moon. : Barbarians understand nor this, whence Column bus foretelling the Moons Eclips, won the favour of the Indians. IL was a Capital crime in Plath's days to maintain, that the Moon could hold the Sun beams from us. Alexander Approdif. Problem, 46. Some thought the Devills were the cause, and therefore ran to affift it with lighted Torches. Archelaus was fo ignorant, that the day the Eclips of the Sun was, he shur up the Court, and shaved his sonne, as the custome was in time of adversity and of mourning, Senec. 1. 5. de bene-

The Eclipse of the Sun happens in the new Moon, or in the Conjunction, nor real, but appearing fo, when Sun, Moon, and our eyes are in the same right line. It it be totall, it is in a montent in respect of the parts. It was fo when scipio fought and overcome Hannibal at Carthage, Zonarus, Tom. 2. Nicephorus layth the same happened at Auguifin's death, Somtimes in five yeares some are seen. Maiolin thinks they produced Warrs, Famines, and Deaths of Popes, It feemes to be certain that both of them may be Eclips'd twice in fix Months, and in five Months, either of them: and that the Suns light may be twice taken from one Country in the period of seven Months, Peucer. in Astrolog: Some are of opinion their operation begins afterwards; I dispute not, but this is certaine they never appeare, but they foreshew fornthing. When in the year 3343, an Eclips was feen, the most corrupt flate of the Kingdome of the Jews appeared. In the yeare 3350. began the 70 yeares captivity. In 3360, the Temple and Jerufalem were destroyed by Nebuchadnezzar. About the Eclips in 1619, Stars were feen at noon-day, and the Warre of Peloponessus began with the Athenians. In the yeare 360, the Sun was Eclipsed untill noon-day, and alfoin 592. What followed, Phocas confirmed the Popes supremacy, 622, wicked Mahomet, fowed his mischief. Alsted in Thesaur. Chronol: In 812, before the Death of Charls the great, a Spot of a black had appeared for seven dayes, witnesse Eginbartus. It seems to intimate, say some, the darkning of the Gospel. In 1415 the 7. of June, fo horrible was the Eclipse of the Sun, that birds fell to the Earth.

Earth, At this time John Hus was burned in the Councell of Constance, the 6. of July, That was supernaturall at our Saviours passion. It was a totall Eclips at a full Moon, and lasted three houres! Dionyfius faid of it, Either the God of nature fullers, or the frame of the world diffolves. He afterwards, confulting with the Philosophers, built an Altar to the unknown God, and was converted by St. Pauls Preaching. Tertullian in Apologetico faith, it was laid up amongst the publike Acts of Rome, but forbidden to be published. Also there is ano. table use of Eclipses amongst Chronologers, especially of those which with certain circumstances of time, Yeare, Day, Month, Hour, Minuts, and of the distance from other Eclipses, were exactly taken, fuch as was the Eclips at Arbelia in Curtin; or Peloponefin, in Thucydides: at Cambifia, in Ptolomy. Powel in his Confilio Chronologico. For there are certain bounds and Characters of rimes fastned in the Heavens, hence Calvilius commends Scaligers Chronology, because he harh objection served Phainomena, and Eclipses, allmost according to the years of the World, out of the Tables of the Heavenly motions, and are fitted to the same. Hence the Calyppic period, comprehended in 76, yeares; in which time all conjunctions of the Planets, new Moons, and full Moons, and Eclipses returne to the same moment of time. A Seethe famous Chronologer Pavellus, treating accurately of these things. I hasten to other matters.

Art: 3. Of the Suns Motion.

He Mahumetans fain that the Sun is carried with Horses, and 1 fets in the Sea, and well washed rises again. Daily experience sheweth us a double motion, we see it rise every day, and set again = and every yeare it makes an Oval figure, passing to North and South. Yer so right under the Ecliptick, that it swarves not a hair from it: The complement of the motion in the Zodiack varieth with many; Hipparchin affignes to it 365 days. Ours, 6 houres leste. Tebitim faith that there want nine minutes of the 6, houres. Henricus Mechiniensis, hath written, that all those shall err perpetually, who observe Eclipses by the Tables of Ptolomy, or Albategnius. Bodin. 5. Theatri Natura. It is the vulgar tenent, to assigne 365 days, and 6, hours. In that oblique course, we observe the Sun to be nearer the earth, whilst hepasseth through the Southern figns, and to be further off in the Northern. That is finished in 178, dayes, 21 hours, and 12 minuts. This requires 186, dayes, 8 hours, 12, minutes. But because the distance of the Eccentrick is variable from the centre of the World, therefore Melanethon and Origania write, that the Sun is nearer to us now than in Ptolomies dayes, by 9900 miles, but Copernicus and Stoflerus cast it to bec 26660 miles. Alfted in Theoria Planetarum. Scaliger diflikes this, Exerc. 99. fest. 2. Nor is it probable, faith Bodin. 1. 5. Theat in fo great variety of distance that the knowledgeof Eclipses could be so exactly preserved. The Scripture tells us that the Sun went backward miraculously in Ezechiahs dayes, as was known by the shadow on the Diall.

Diall. to The Hillory of Josuah Witnesserh that it flood fill, and made a day of 36, houres, Justin Marry, in Dialog: tum Tryphon. some think the Sun danceth when it tiseth on Baster-day, and honours our, Saviours Resurrection in Triumph. If that be so, it is necessary for ir to dance a whole day, because it riseth the whole day. What ever this is, it must be ascribed to the Ayre, interposed betwirt, which an about the Sun rising, abounds with Vapours, and if at any time, most in the Spring, because the pores are open, and it sends forth more Variante Spring, because the pores are open, and it sends forth more Variante pours, Camer. Cent. 2. Memorab. p. 39. pours, Camer. Cent. 2. Memorab. p. 39.

Willen the Sun comes to the Horizon, the Day rifeth with us 31 Night comes when the Sun departs. But because it moves obliquely, and is girt within the bounds of both Tropicks, it keeps equality under the Equinoctiall; it varies which fide foever it declines : yet the greater it is, the farther the Countries are distant, from the aquator.

In Arabia, a Province of the new World; the Dayes and Nights are alwaies equall. Geographers have written the same of Peru. Overan, in Summa.

In a Country of Africa called Gambra, in the moneth of July, the Night is no shorter than 11. hours; The Sun riseth suddenly without dawning. The Troglodites and men of Africa have but 13, hours to their longest day, Strabo, l. 1. They that live under the Pole of the Stars in the spring-Bouinox; see the Sun rising; but in the Autumnall. ferting, Mela. 1.3. c. 2. Hence it is, that they have half a year day. and then half a year night. The Hollanders, at the Straights Vaigais. from the 4th, day of November, to the 24. day of January, have found but one continual Night under the degree of 71. Boetius, in the description of the Narrow Sea, Vaigats.

In Laponia, one Night lasts 3. moneths, and there is in that time no more light, than the Moon-shine or clear twilights afford, Zigler. in Laponia. In the farthest part of Normal the Sun is not hid in the night. In another Northern Climate, the Nights are very bright, at the Summer Solftice. Saxo Grammaticus.

The Day and Night with us are equall, when the Sun enters Aries and Libra; they are longer when he is in the Tropick of Canter; Thorter in Capricorn. The moneth of June is faid to contain the longer. day, the shortest is assigned to the 25. of December. The more sull perstitious are perswaded, that strange things are seen the night be-10 fore. The Olive Tree, and the white Poplar, and the leaves of Willowes are said to be driven about. Macrob. 1.9. c. 7. The moissure in ... Trees afcends upwards from out of the toot. The Apple-tree brings forth blossoms and unripe fruit. Some strings of Instruments are frook with the fingers, and the other strings found. Suctonist 1. 13. Ludiera Historia. The small livers of Mice are increased. The kernells that are thut up in Apples are tutned the contrary way. Creeks, lib, a, de Divinat.

The like our teachers to the course of the contract of

Chapuk.

Artic. 5. Of the Four Parts of the Year. With the War Tradition and the grown and the

He motion of the Sun through the Zodiack makes a Year. Man. thematicians make this to be twofold. The one is the space in which the Sungoes from the Spring Equinox, and returns to the fame: again; and it confifts of 365 dayes, five hours, 49 first minutes, 10 feconds. The other is from the time the Sun departs from the first Star in Aries, and returns to the same again; and it consists of 365, 6 hours, 9 first minutes, seconds 23. Copernicus appointed this, and he deserved great thanks for it, Of the former there are four parts, Spring, Summer, Autumn, Winter: Spring and Autumn make the Equinoxes; this the Winter Equinox, that the Summer. They both happen, when the Sun passeth the Line. The most certain sign of the Springs approach, is the Butterfly, being a weak creature. Pling in billor, Natural. Cancer makes the Summer, when the Sun-beams are verticall with us. It is inflamed by the rifing of the Dog-star, faith, Pliny, 1, 2, c, 40, yet it were more Philosophicall to say, that when the Sun repeats his Journey, he raiseth hor blasts and wind; whence our bodies partake of great hear. Truly, sometimes it is extream, if we credit Histories. I read in Livy, 1.4. Histor. That in the year of Rome 322, not onely rain from Heaven was wanting, but the Earth also wanted its inbred moylture, that the Rivers that run continually were almost dry; that many Fountains and Rivers wanted water, that the Cattel dyed for thirlt.

In the year 1153 the Woods were fired with over-great heat, the: fat Earth took fire, and could be extinguished with no rain. Mergerim. The German Records report, That in 1228, the heat was fo great, that the Harvest was ended (I will use their own words) before the Feast.

of St. John Baptist. Lipsius cites it in his Epistles.

In the year 1573, the Wood of Bohemia burnt 18. Weeks. The: Danube was so dryed up, that in many places one might foordit. And what is wonderfull, there was no losse in the Corn. But in 994. in. the end of July, the Lakes and Waters were fo hard frozen, that all the Fishes dyed, and there was great scarsity of water. Cardan thinks it is a mark of an over-hot Summer, de varietat, rer. 1.15, c.38. if old theep are very much given to lust in the Spring. Men write, that there was so pleasant an Autumn in the year, 1584, that the Roses and young branches flourished. It is our Winter when the Sun enters Capricorn, then all things quake, are covered with Snow, and bound up with Ice. The Sun foreshews a most bitter Winter in the Northern parts, when he hides himself in a red clowd, as a pillar of fire, and casts out his beams like fiery darts. That descending, it is turned into black. Cardan. l. 1. Or when things that use to be moist seem dryer, or drops dripping from houses fall more flowly. And sometimes che winter hath been excessive. Chronicles say, that in 1234, the winter was most fierce, so that in the Adriatick Sea the Venetiam Pactors piffed over the Ice with their charge of moneys. Zonaras reports

the like to have happened under Conftantine Copronymus: for in the Pontick Sea, and the Straights adjoyning. Marianus Scatul.

In the year 32. of Charles the Great, there was a great and most bitter Frost, so that the Pontick Sea was frozen too miles in the East where it was so cubits from top to bottom. In the year 1.12.11 the winter was fo cruel; that in Brabant an infinite company of Ecles by reason of the Ice went forth of the Lakes, which is as wonderfull thing, and hid themselves in Hay-ricks, and perished theret with extremity of cold, Robertus de Monte. The Trees had hardly any leafs afterwards in May. Sometimes the winters are for calmited a In the year 1225. in December the Peach Tree budded r. In. 1186 bin December and January, Crowes and other birds hatcheditheir Eggs with young.

Butchefe divers parts of the year for length and dyration comes! from a divers polition. They that live under the Pole are is probate ble in parnetual cold, and they are more hor that live under the Equip notiall. They under the Equinoctial have a double most pleasant winter, and a double Spring, He that would know more of this may read, Mayolus Collagu, de proprietat: locor.

Artic. 6. Of the Sun's Spadom. Wo things chiefly are observable concerning the Suns shadows I the operation and the diversity. It can hardly be said how great it is. Men skill'd in the Opticks have described it more acurately It shows the reason of Eclipses, the Suns magnitude, the variety of Eccentricks, the condition of time hath been demonstrated by its Men are taught thereby to define the climates and parallells, to prove the Earth to be round, and that the Earths Globe stands exactly in the midft of the Universe, to know the Earths, magnitudes &cc. Example ples shew the diversity; Those that dwell Northward between the Tropick of Cancer and the Arctick Circle, their Noon-Inadowes are cast Northward, and to the Southern people Southward .: They of Finmarch and Groenland, and that passe the degree of elevation 66, see the shadows run round about them: Gauricis in Geograph.

In Syene a Town above Alexandria, 5000 furlongs, at noon-day on the folflice, there is no shadow at all, and a pit was made to make experiment of it, and the Sun shined to every part in it. Pliny, 1. 2. c. 73. And in India above the River Hilpalis; the same falls outpar the lame time, as Quesicritus hath recorded.

In the Island of Merce, which is the chief of the Ethiopian Country, the thadows fail twice a year, and in Summer they are cast Souther wards; in winter toward the North. In the same, in the most sample Haven of Patales, the Sun rifeth on the right hand, the shadowes the Southward. It is lastly manifest, that in Resenice as City, of the Tragladytes, and from thence for 4820 furlongs in the same Country, in the Lown of Prolomais, which is built on the brink of the rad search the first hunting of Elephants, the same thing falls, out an denes the ? fore the Solftice, and as many after it, and during those 90 dayes, the shadowes are cast into the South, Plin. 1. 1. The part gar had made Council asking a well

Art. 7. Of the Suns Influence on the Inferiour world. ว ผู้อยู่ โดย เกมียว จรับ อักดัวรุกษากาย เดือนก

TI was easie to observe, how powerfully this Eye of the World L would work upon Inferiour bodies by his lighter and publique motion. There is nothing in the parts of the year, or dayes, or nights, or variety of shadowes, but must be ascribed to it. When the Sun ariseth; all things are enlightened; when it sets, all are in the dark, Things flourish, when he approacheth; fade, when he departeth; These are generals, and if we respect particulars, are not much lesse. It is certain, that tempelts, and seasonable weather are from the Sun. About the middle of Sagittarius, and the constellation of Pisces by the help of Stars that are in them, and rife, it blowes warm to those that are under it; and, the humours that were frozen being melred, and the earth being watered with them, it produceth the fruitful Western blasts, and ftirs up the force of the Pleiades and Hyades in Taurus, and of the Kids from the North, from the South or Orient that is near unto it; and of Arsturus that lyes opposite to it, which raise up Southern winds, and for some dayes do water the seed sown with continual rain. Peucer in Astrol, When the Herbs are grown and want moisture again for their just magnitude, it affords it and drawes it forth by it, coming up toward the Stats of Cancer. Pling takes the figns of Tempelts from it, 1.18.0.35. It belongs to motion; for Scaliger faith, That men fail faster with the Sun. Exerc. 86. And Pliny 1. 2. Histor. c. 71, writes, That the Currior Philonides ran from Sicyon to Elis, 1200 furlongs in 9. hours of the day, and came back again, ofe-times, though it were down hill, at 3. a clock at night: The read for was, because heran out with the Sun, but returned against the courfe of the Sun.

CHAP. VI. of the Moon.

Artic. 1. Of the Figures and light of the Moon.

He Stoicks thought the Moon to be a dark and hairy light. Clevi medes supposed it was a ball, white on one side, and blew on the other. We acknowledge it to be a heavenly body, one of the two great Lights that God made. Sometimes there have been two. somerimes 3. seen, as when Cn. Domitius, and C. Fannius were Confuls, whom they called the Night-Suns. Pliny, 1.2. c. 82. She is leffe than the Earth, thirty times 9, or 3. times 40, if we follow Copermeus. She is diftant from it, 44916 Germanmiles; or if we gredie Schrechenfuchsim, whom moft follow, it is 28359, She borrowes fier light from the sun. Whence it comes that she hath so many Aspeas; the is alwaies increasing or decaying, and sometimes the is crook'd with horns, sometimes she is equally divided; sometimes she is crooked, fometimes full, fometimes the is fuddenly wane, and the fame appears fundenly again. Pliny, 1.2. c. 9. The Ancients adored the full Moon as a type of beauty.

Chap. 6. Of the Moon.

There is a merry Tale in Plutarch in his Sympoliacks of wifeman concerning the Moon decreafing. That the Moon asked of her Mother a Coat fit for her; and she answered, How can I do that? for sometimes thou art a full Moon, sometime a half Moon, and sometimes with two herns. In Biarmia the is never feen but with a full circle toward the furface of the Earth, of a fiery colour, and like a cole. Olaus, late made it But the transfer of the same of the same of

Articus. Of the Spots and Eclipse of the Moon: White will be the Moon with the state of the Moon with the state of the Moon will be the state of the

He substance of the Moon is spotted: if you ask the reason, wife men have faid that the parts of the Moon are unequally compacted. The Poets thought the carryed a Boy with her whom the loved, who covered his face for shame. When she is deprived of the Suns light, the is Eclipsed. But that is only in a diametrical oppofition, when the Moon hath no declination from the Ecliptick, or that which is lesse then 67, minuts, and so it either enters the shadow of the Earth, or cannot avoid it. The antients thought the might be drawn from Heaven by Charms, and being thrust down, the might be compelled. That the powereth forth her venome and force into the hearbs that are subject to her, which may be more successfully used in Magickarts. Hence it was that they tinkled in Oymballs, that the Charms might not be heard. There are no Ecliples of Sun or Moon, but there follow some changes in sublunary things. There was one in the yeare, 3459. And Darins at Marathon was overthrown by the Athenians with wonderfull ruine; another was, 3782, and Perfem King of the Macedonians was conquered by conful Amilius, and an end was put to the Kingdom of Macedonia, Alfted, in the fauro Chronolog: Some observe them superstitiously: for example, Niceas of Athens (ubbo Emmius Tom. 2. vet. Grac.) being beaten at Epipolas in Sicilia; when his Country was in danger, he should have marched away, as Demosthenes and Eurymedon perswaded him: When he did march, the Moon was Eclipsed. Many took that for an ill Omen: this so moved Nicess, that he faid he would decree nothing, to remove his Tents, untill three times 9, days were over, that the Wizards had foreshewed. Plin: 1, 2, C. 12. He did it, and so wasted the forces of the Contract the contract of the c Athenians.

To this may be referred, the ridiculous opinion of somes who think that an Affe drank up the Moon : forwhen the Affe drank; the Moon was seen in the water, when the Asie went away, the was covered with a Cloud, and could not be feen. Wherefore they can the milerable Affe silend rod on into Priftin, and out up his belly suchar they might have the Moon again, and they most cruelly took out his bowells. Delrius, difquisit; Magic: 1.2. quest. T1. In the year, 1499; about fetting, the moon was first changed into black; then she was di-

26

dropfic people are grievoully cormented; and therefore they all die

vided into two parts, and the one part leapt upon the other backwards, both parts were sprinkled with red. They united afterwards, and set as one Moon. Many confederacies followed, and the Nobles, who in 1496 were confederate, opposed themselves against the King of the Romans, Linturius cited by wolfius in Memorabil.

Artic. 3. Of the Moon's Influence on thefe fublunary things and an

T Nnumerable are the operations of the Moon on fublunary things. If you would run over all the field of nature, Plants, Animals and mens bodyes are subject to the Moons Government, Palladius reports. (Cardan de varietat:1, 2, c.13,) If Garlick be set when the Moon is under the Earth, and be pulled up again when the Moon is under the Earth, it will lose its strong smel. So they say that Basil bruised in the new Moon, and put into a new Pot, at the full Moon it will send forth flowers at one end; and if it be fet under the Earth twice as long time, it ingenders Scorpions. Vines in the day time are nourished by drawing moisture to them, and in the night they increase, and grow. Lillies and Roses open their buttons only in the night. Keckerman difp: Phys; 3. coroll: 11. Of all that beare head, only the Onion is augmented when the moon increaseth; when it growes new it fades, as if it hated the course of that Planet. Lucilius. Wherefore the Agyptians at Pelusium hate to cate it. Gellius, Lib. 20.C.7. As for living Creatures, Savanarola writes that in the Leap-yeare, living Creatures are barren, Cardan, 1.c. It is observed that in the full Moon all Oysters, Perwinkles, and all shell fish increase, and their bodies decrease with the Moon. Also the more industrious have found out, that the fibres of Rats answer to the dayes of the Moon : and that the little Creature, the Ant, is sensible of this Planets force, and alwaics rests in the Conjunction of the Moon. Pliny, Lib. 2. Cap. 41. The skins of the Sca-Calves and Sobles are stiffe, and the haires stand upright, when the Moon increaseth, and they fink down when the Moon decreafeth, and grow weak, Keckerman, I. c. As for Mankind, if the Moon come to the Sun passing thorow Aries or Scorpio, when any one is born, it so afflicts the brain of him that is borne, that when he comes to be a young man, he shall be troubled with melancholly. Things bred in the Conjunction of the Moon, are frequently dry, and are encumbred with a sharp hear, and have all their limbs especially affected, Peucerus de divinat. They that sleep under the Moon-beams, are troubled with heavinesse of their heads and defluxions, Camerar, Memorab, Cap. 9. Att. 85. For by the Moon beams, the moisture of the braines of those that sleep is melted, which being restrained in the head, the internall heat being not active enough to expell it outward, it breeds Catarrhs. The Epileps is exasperated in the full Moon. For the abundance of moysture hinders the sharpnesse of Vapours, and the putrefaction that they caninot breath forth. A smaller quantity doth more easily corrupt mand the heat acting upon it, makes harper Vapours according to its proportion .. Libavius, tom, 3. Singul, lib. 3. cap. 18. 11At the famotime Droplicalmost about the full Moon. Truly, in Alardha to 29 when we wiis this, it took away that Reverendman, D. Martin Gratiania the function intendent of the Reformed Churches in the greater Poland, who was the Charior and Horsemen of Ifrael, Let his inchnory be bleffed 11190 1 When the Moon is opposite to the Sun, mad-men rage most. They that are troubled with a disease of the brain from too much plenty of Brain, are choked in the full Moon. Hence it is that the Bittans on the 14s day of the Moon whip mad folks. Bodin: 125. Theatr. Better therefore it is to give a medicament against the Epilepsie the day at ter, than in the opposition of the Luminaries. For in the hourtof conjunction the Moon is calm, nor are there propensions to either sides of advantages; the next time after it, the begins to work in the hub mours, and so augment them. Libav! Epift. 15. to Schnitzer. 11 stall Barrier that the control of the cont uh e garbat the schap. Wil. where well with mit generale de anne de la morofensem start, des especies qui de mante

the seed from by his seed as a seed to mode, which is desirable that fleetweets Nature in Heaven. I will now adde fome things which the right hand of God hath produced above nature it mean new Stars, which have appeared, and not being of long continuance have thortly difappear'd again, and vanished from our fight. "The Stall at our Saviours birth is the chief, which (Fulgentius faith) had no place Ili the Firmament, nor in the Ayr. It went forward with an uncertain Hibrion, fometithes it shewed it felf, and sometimes in was hid and mafrenus, 1.2! Orthodox. fideit Chalcides the Platonift fpdakt thus of it, upon Timeus of Plate; There is also a more holy and more veneral History that relates, that by the rifing of a Star that was unufual, not Death and Difenfer were foresheved , but the wenerable destanding of Gods for man's falvation, and in favour of mortall things, which men testifie to have been observed by the Chaldwans, who adored God with gifts; who was newly born. Whence they learned the knowledge of its apparition, is shewed in the Books of Balaam the Southfayers wherein are many fabulous things. Bath he down on the water that were

The other is that which appeared in the year 1572. This is that year, wherein that Bartholmy flaughter was acted at Paris, in which (not excluding other places) is ooo men were flair, robooo of honest Families were oppressed in three slayes. Widows and Orphan Children innumerable being brought othe greatest beggery or want. Prisbach in Respons. advantable habitain apad Respectos. The summe was so great, that the wifer for that were no wayes addicted to the Protestant side, when they were come to themselves, and considered the sad condition of things at that rime, and disavowed the Act, and sought our curiously the causes of it; and excuses for they judged that there was no such Example of cruelty to be found in all Anti-putty schools their Chronestes be sattled into white Act, and found their Chronestes be sattled into white Act, and so the continue was no such Example of cruelty to be found in all Anti-putty schools as their Chronestes be sattled into white Act, and the continue white their Chronestes be sattled into white Act, and the continue was no such as the sample of cruelty to be found in all Anti-putty schools as the sample of cruelty to be found in all Anti-putty schools as the sample of cruelty to be found in all Anti-putty schools as the sample of cruelty to be found in all Anti-putty schools as the sample of cruelty to be sound in all Anti-

That that appeared the 6th of the Idesiof Mongober under the Constellation of Cassopea; some mensaid, it was in the hismament it fold amongst the heavenly spheres. It had neither Tail nor hair, but like the other Stars, it fent forth beams equally. The Diameter of it contained the Diameter of the Earth 7. times and i part s, and ic was greater than the Earth 361 times and is it was bigger than the Sun twice and ? parts, Tycho Brache, 1, part, Progymnaf. Astronom. Kerthis Eminency of greatnesse and light decreased afterwards by degrees, untill it vanished quite away. It had no motion, except that which it had common with the fixed Stars, it alwayes held the lame Polition to the neighbouring Stars in Castiopea. It lasted 16 months, What was foreshewed by it, is variously determined by divers men. Gemma Frilius in Cosmecritica, writes, That since the birth of Christ there was hardly any apparition to be compared with it, whether we consider the height of the sign, or the rarity, or the long continuance of it. The Britans ascribed it to the lamentable death of Mary, An Oxford Altrologer was Authour of this opinion, who by Cassiopea, the Sister to King Cepheus, said, That some Queen in the North must be noted out by it; and by its 16 moneths continuance he foreshewed, (I know not according to what calculation of the Arabians, and the ascending of the Star into the upper parts,) That that Northern Queen after 16 years should alcend up into heaven. The event made good his prædiction. Thuan. 1.5.4 Molerus scemed to expect a new Propher by it, in the year, 1599, and the conquest of the Gospel over all through the World. Liberoving foretold, but fally, War, in 1619, and the banish-

ment of the chief Prince in Germany, in 1620; the restoring of him again by the Eastern Countries, in 1627, and many such like

There is extant concerning this Star a godly and excellent Copy of Verses of a certain famous Writer, which I hereset down ;

some signification alter the signification of the s

Hepether that Comet without blazing tail, That bines as clear as do the fixed Stars, Shall in succeeding times so far prevails As to raise Dearths or Plagues, or bloody wars 3 . 194 . 160 1991 God onely knowes, and after-times will flem. But if Man's Wit can any thing foretell, To not amiffe to fearth such signs are news and spinish and And lift our minds above this place we dwell now most bar and This is that Star which did the wife-men bring From the East land, to Bethleem, and there In David's City, born was the great King. It now foresberges again, and doth declare, That God is coming : cruel Herod fear ! Bour venGood Menrejoyeen your Redempsion drames near muson OV

dv Hhx 18 The third was deer in the years, Y 371 in November; and which the following years vanified, Janhully the 28 1 Westland blat each this in the sphere of Fenil! Tycho writes that the healt was 252 Germain miles diameter. Dant Bick was then be fleged and 1498, the Warre of Molcovia Began. It was Supposed to portend the Death of great Mich. In that yearc (Thudh. 1. 65.) after a desperate fight in Africa, Sebaltian King of Portugall died and Melchus Chorifius King of Morifco Trigitana? Whom he came to Subdite. And Wahomet that cauled the Warrowas drown'd. 8000. Christians were flaintantial many taken Captives, allmost all the Nobility of Portugal fell into the hands of the Mores. That was done in one day, Formal camencit under the Government of Philip. Then in 1804, about the beginning of Officers a fourth new Start appeared in the 17. degree of swittings and was from the Ecliptick, but 37 minutes. Aftronomers fay, it was between Barum and the 8. Sphere ; yet that feems abfuid. Reckerman in his confulration conterning the Starre in the year, 1604. Thefigy All To because it had its own proper motion, distinct from the Sphere of Summing and the fixed Crates, and the Starts hrove in and withriber Orbs, But that had none, Crabbius faith directly, that it was from the Center of the Earth 22267636 miles, and from the superficies of the Earth, 22: 66777 miles, disput, we comer ! Thef; And hence he cont cludes it was greater than the Barthi or times a and hence he proves it was above Saturn, being from the Barth roof 250 miles at thinks full four Months: and after that was to be fren from the 28 of NA vember with Saturn, from the 29. with Sol, and from the 13 of December ber with Mercury in Conjunctions; and with Mercury, Chart; Soly in oppositions, the May following, which was supposed to posterid great confulrations, confederacies, and changes in Frances Spain, the Long Countries, England. Thuan, lib. 131. But the opposition that will our on the 6, of June, was held to be Ominous, and then conjectured that this Starr would cause Wairs and calamifies to many Countries, and chiefly to Germany in point of Religion. An excellent Mathematician Keplerus writ concerning it, and who was no whit guilly of Antologicall superstition, by the testimony of Thumbs. See him. I call these apparations Starts, norther I am ignorant, that they are referred to Comers, but because I find that in the skye they are placed amongst the second moveables, and are call'd celdstiall; which is not agreeing to Planets: and I think it there fit to call them Startes, than by naming them Comers, to overthrow the doctrine of Merchas see ceived from the Antichts.

GREET HOLE OF ALL SON AND A COURSE WAS A SON OF ALL State of CHAPANVII No Rock to Carlo

of affvologicall pradictions.

Oncerning Afrologicall Pradition many men have many minds. Some magnific them, others reject them as idle vanities. It is certain that natural actions, as the changes of dayes I mgint, yeares, feafons, because they have determinate causes in the position of the Starrs, may be forefold by them. Yet because the matter of the elements is mutable and flitting, many particular causes overthrow general caufes, and many Starrs in both motions are yet unknown ; and fome of them fomtimes are opposite to the others forces: also most experienced Artists are few; and lattly there is a vast distance in placing, the beginning and ends of the Houses, and proprieties, and therefore it is no wonder if error creep in Bartholin de calo. And if we obferve particular and individuall actions, the errour will be the great ters for beside the generall influence of the Starrs, there is a special influence, which arifeth from the speciall complexion. .. The indisposis tion of the matter hinders the good influence of Heaven; and the goodnesse of the temper derived from the Parents, keeps off the bad in-Huence. We know that Jacob and Efau were born anthe fame time, in respect of the Heavens position, yet was their fortune most different. In civil actions the Starrs have nothing to do. It is an clegant faying of Bodinus : Lib. 4. de Repub. Cap. 3. There is but one Rule, faith hos, of all Philosophers, even of those that idly dispute of what is done in the Heavens; that a wifeman is not under the affection and power of the Starrs 5. but only those who like beasts are ruled by their appetites and desires , and will not be Subjett to reason and good lawes, whom Solomon, the Master of wisdome threatned sharply with punishment of the rack : yet many have adventure ed to make triall. The Caldeans by mens actions collected the day of a mans Birth, and from the day of a mans Birth, the fortune of his whole life; And that men fhould not reject them, they boasted they had spent 470, thousand yeares in the experience of this Arty And fo bold they were that they vaunted that it was a thing as necessary to be known, how the polition of the Starrs, and the force of the Heawens were, when a man would build a house, or make, sow, or put on his Cloths, as to know how they were disposed when Children were new born. Lucius Tarujin Firmianus, by the acts of Romulus, his Lifes and Death; found that he was born in the first yeare of the second Olympiad; the 23- day of the Month; Peucende divinat: fest de Astralogie and born in the 21, day of the month Toth, about Sun rifing. And hence he found out the first day that Rome was built and that it began when the Moon was in Libra, the Sun with Mercury and Vental in Taurus, Jupiter in Pifees, and Saturn with Mars in Scorpio. To this purpole womay refer him, who by the first day of Jannuary, would foredellall events. The way of the variety of the very set the state of the rest vet

If that a Rain-bow in the Sky appeare, God is well pleaf'd with man, they need not fear. If burning Meteors from the Heavens shine, Of great long during heats they are the signe. If Thunder Rore, or Rivers overflow, intern withis forestempells as all feamen know. on a nice on a property

a regard of the box, figures.

Chap. 8. Of Aftrological Pradictions.

Alf Rivers freez, it then portends great joytely and the second Each woman shall conceive and beare a Boy. And Add the same a way?

Mayol. Collog. r. Canicular. Of fuch this is true: These Mathematitians by a falfe interpretation concerning the Starrs, and by their lyes cast a mist before those that are light and foollish witted, for their own advantages Valer. Maxim.l. We have examples of their fraud in Niede tas Chronias, otherwise a prudent Historiographer. In our times (saith he) the Emperours do nothing but by advice of Astrologers, and they make choice of dayes and nights to do their businesse; as the States shall distate unto them. Therefore Alexius the Emperour's defired long to know when he might scasonably return to Blacherna; at last the day and houre were chosen according to the Starrs! He returned, and that so happily, that the Earth opened very deep before him? and hoescaped, but his Son in law. Alexim, and many of his Nobles fell into the pir, and were hurr, and one Eunuchus that was a favofite perished. That of Manuel is more ridiculous: when he was Emperour, they of Sicily and Italy had possessed themselves of the Sea heere Constantinople; he had somtimes sent out a Fleet, but with ill successe. Wherefore the Mathematicians were consulted to assigne a more prosperous time: Constantinus a famous man prepares himself, but he was once more called back again; because the Prince had found, that the inquiry was not so certainly and wisely made as it ought to be, and there had been some errour. The Scheme was therefore set once more, and Conftantinus was fent forth on the day chosen: He was fearce got to Sea, but he and all his forces were taken; Lipf, in monit. polit. A brave art; yet I wonder, fince I read of some that were feld dome frustrate of their ends. Nigidim Figulus, foretold to Augustus, that he should be Emperour, (Xiphilinus). Thrasyllus foresaw the Empire of Tiberius, and his own danger when he was on the Tower with the Prince, and should have been cast down headlong; Sueton, in Ostavio. Largius Proculus gave notice of the day that Domitian should dye; Afeletarius foretold the kind: and being required of him to answer what kind of death, he himself should dye, he said he should be caten with Doggs: and so it was. For though Domitian to disprove him; commanded that he should be burnt, and he was then burning, yet a rempest rose suddenly, and put out the fire. The spectators ran away, and the Doggs came and devoured him, Sucton, in Domitian: Tolephus that wrote the Antiquities of the Jews, faith, that he foretoldto the Emperour Vespasian, and to his Son Titus, that they should be Emperours. We know it was so. Petrus Leontius, a Physitian of Spoleranum forefaid, that he himself was in danger of drowning. And he was found afterwards drownd in a pit, Jovius, Elog. 35. The Arch-Bithop of Pifa consulted Astrologers concerning his destiny: they told he should be hanged; Annal. Florentin. It seemed incredible when he was in so great honour; yer it proved to be true. For in the sedicion of Pope Sixtus the fourth in a sudden uprore he was hanged. Richardus Cervinus had forotold to his idon Marcellas that he flould come to great

great dignity in the Church. Hence he conceiving hope of it, when he was invited by his Mother Casandra Benna, to marry, refused it stoutly; saying, He would not with the bands of Matrimony bind himself from a greater fortune that the Stars foreshew'd unto him, living lingle and unmarried: Thuan. l. 15. It lo came to passe. Lucius Gauricus delivered this in his Book of Nativities. Which Book, (and it is a very wonderfull thing) faith Thuan, I. r. was published at Venice three years by Curtius Trojanus, before Cervinus was proclaimed Pope. This was that Pope, who when the Reader, as the manner is, read the Scriptures, or Writings of the Fathers at dinner time, faid, He could not perceive how those that held so high a Place, could provide for their own Calvation.

These are Examples of Predictions made good by the Events, Lip. sius, l. 1. Monitor. ascribes some to inspiration : Delrius refers some to compacts with the Devill, l. 4. Disquisit. Magic. cap. 3. quast. 2. Certain it is, that God sometimes suffers them for a punishment to those that are so bold, and that they are true but by accident onely.

See Delrius, who handles this Argument largely.

The End of the First Classis.

Of

the Writings of Wonders in

The Second Classis.

Wherein are contained the Wonders of the Elements.

That is the chief thing in humane affairs? Not to fill the Seas with Ships, nor, to fer up standards on the shores of the red Sea; not where Land is wanting, to wander in the Ocean to injure other nien, and seek out unknown places : but to see all with the mind; and, than which there is no greater victory, to overcome our vices; Seneca, Natur, quaft. 1.3. Praf.

CHAP.

Of Fire.

Attic. 1. Of the wonderful beginning of Fire.

Ire was a long time unknown to the Antients, especially if you respect them who in the utmost borders of Egypt dwelt by the Sea side, Plin. histor. Natural. 1. 16. c. 40. When Endoxus found it, they were so pleased with it, that they would have pur

it in their bosomes. Fire, is not unknown to us. So great is the variety of it, and it is so manifold, that I know not what order to deliver it in. Pliny faith it is from it self; steel rubb'd against steel causeth fire. Also the stones we call fire stones, stricken against steel or other stones, send forth sparkles. Therefore the Laplanders begin their Contracts of Marriage with the fire and flint, Scalig, Exerc. 16. f. 1. For fire with them is the Authour of life, and the flint is eternal, wherein the treasure never fails. It is in vain to try that in a brittle stone: for the piece falling away, that which should draw forth the Ayr is lost. The rubbing of sticks one against another will fetch fire. The Indians do so; They make two sticks fast together, and put another stick between them, turning it swift like a wimble, and so they make them

take fire bullan. 1. 6. 6.3. In Apalia they wrap p Canto uncorded and draw them as fast as they can thrward and backwardured hichevi fire it by motion, whyolin collegizate The Venal Nuns did the lamed when their eternall fire went out, if we credit Feftus. In Namphtus; & flame goes out of a Rock, which is kindled by rain. Arifforle faiths in Admirand, it is not perceived untill you cast oyl upon its undethens the flame flyes upward. We find alfoin Authoursithat in the Cound try of the sabins, and Apulia, there is a stone that will fire if you annoint it, Plin. 1.21 c. 2071 In Aricia, if a live cole fall on drable ground, the ground will burn. In a Town of Picenum, Benatia, if wood be laid on a certain stone, that they account holy there, it will flame presently. Also a flame goes forth at the waters of Scantia; But it is very weak at the going forth, and will not last long in any Uther matter. Also at Gratianopolis in Dauphing flame fhines out When you flir the burning Fountain with a flaff, to that ftrawmay be Rindled by it; Dalechamp, ad l. c. The fire of the Mountail Chimera Is kindled by water, Plin. 1.2.c. 106. If you hold a glaffe Globe full of water in the Sun, fire will rise from the repercussion of the light from the water, in the coldest frost: Lastan. de ira Dei, c. 10. Sometimes also fire ariseth so suddenly inhouses, that it may be thought wonderful. Cardan. l. 10. de varietate, c.49. ascribes the cause to the Talt, and Salt-Peter that flicks to the walls of the houses, in Myhich Valerius reports concerning the Schollar of the vestall Nun, Maxima Amilia, 1,1, c.1. that the adoring Vesta, when she had laid her fine

onely by hor Ashes.

If you look in the Bible, you shall find a wonderfull originall of fire in it, T King. c. 18. Elius when he offered facrifice brought fire down from heaven, which consumed the facrifice, wood, stones, dust, and water. In the Book of Judges, Ch. 8. when Gideon at the command of the Angel had laid slesh and bread upon a stone, and pourced Frankincepse upon them, sire came forth of the stone, and consumed them.

Tinnen veil upon the hearth, the fire that was out, shined forth again:

an old wall being fcraped down, he writes, that it might take fire

Atticia. Of Fires in the waters:

If we will credit Histories, it is most certain, that fires have been seen in the waters. Pliny saith, lib. 2. c. 107. That the whole Lake Thrasimenus was on fire. That the Sea did burn, Liv. lib. 33. when Alarieus wasted staly, and John Chrysostome was driven from his Bishoprick, the Earth quaked, fire sell from Heaven, and a wind took it, and cast it into the Sea, which took fire by it; and at last went out again; Niceph. 1. 13. c. 36. In the fields of Babylon there is a Fishpond that burns, which is about an Aere of ground, Plin. lib. 2005. A stone cast into a Lake near to Densladium of Thuringia, whomat sinks to the bottom, it hath the form of a burning arrow; Agricol. 11b. 4. de nat. assume that the said was a sum of the said was a sum of the bottom.

In a City of Comagen a, called Samofata, there is a Lakethat fends forth burning mud; Plin. 1.2. c. 104. Posidonius saith, that in his time, as bout the Summer Solstice, in the morning, that between Suda and the Sea of Evonymus, fire was feen lifted up to a wonderfull height, and to have continued so a pretty while, carried up with a continued blast and at length it funkdown. Many dayes after, Slime appeared, that it fwam on the top of the waters, and that flames brake forth in many places, and fmoaks, and foot, and at length that Slime grew hard, and that the lumps grown hard, were like unto Milstones. Julius Objequens adds, that it dispersed a great multitude of fish, which the Ligarenses much feeding on, were spoiled by them, so that the Islands were made wast with a new plague, Strabo. 1. 6. Between, Ther and Therasia which are in the Cyclades, flames went out of the Sea, in such abundance, that is was extreme hot, and seemed to burn; and when it had swelled by degrees, of the peices cast out, that were like to Iron, an Island was made, which was called Hiera and Automate, now it is called Vulcanellus: by a very small arme of the Sea, it is parted from Vulcanellus, Plin. 1. 2.c. 87.

Of Fire.

Artic. 3. Of Fire under the Earth.

I Said that fire was also in the waters; now I will shew that in the Lowells of the earth fire is generated. When Claudius Nere was Emperour, fire was seen to come forth of the Earth, in the land of the Town of Colein, and it burnt the Fields, Villages, Houses; now because the matter of it was bituminous, and could be quenched neither by raine, nor River waters, nor by any other moisture, it was extinguished by Stones and old Garments. In Mifena a Country of Germany, a Mountain of Coles burns continually, the trenches falling down by degrees in the superficies, which if any man behold, they appear to be burning Furnaces. The fire kindles any thing neere to it, at four foot distance, but not put close to it. Agricol. de natur. effluent. ex terr. Vesuviu, also a Mountain in Campania, burned, when Titus Vespasianus, and Flavius Domitianus the seventh, were Consuls. First it cast out Stones from the top broken open; after that, it cast forth such Flames, that two Towns, Herculaneum, and Pompess were fet on fire; and it sent forth such thick smoak, that it obscured the sun; and lastly it blew forth such a quantity of Ashes, that like snow it covered the Neighbour Country, which by force of winds was carryed into Africa, Ægypt, Syria; Dion. Cafs. in Histor. When the Elder Pliny beheld this Fire, (the Younger in Epistol. ad Tacitum) the smoak so stopped his tharp artery, that his breath being intercepted, he was choaked; There is also a mountain of late in Campania, full of rifes, from the time the fire was bred there, which burns and rores within, and fends forth smoak in many places, and very her braoks, the shore smoaks at the foot of the Mountain, the said is hot, 80, the Sca boyles, Agricol, l. c. In the same place, there are many dirches covered with land, into which some that have viewed these things care

lefly have funk in, and were fifled, This is in Europe, In Indias there. are no leffe burnings by fite. In Crapotulan, a Province of the kingdonie of Mexico, a Mountain casts forth stones as big as houses, and those stones calt forth have flames of fire in them, and feem to burn, and afe broke ill pieces with a great noile; Petrus Alvarad ad Cortesium. In thos province Qualutemallan, of the faine Country, two Mountaines with in two Leagues one of the other, vonit out fire, and tremble, Petrust Hifpalenf. P. S. C. 23. In Peruacum alfo, out of the Mountain Nat! mitvata, the Fire flies out at many holes, and out of one, boyling waters raids, of which falt is made. In the fame Peruasum in the Town Molass balb fire is voluited forth, and affice is cast out for many dayes, and a covers many Towns. There is an Island next to great Java, in the middle of which land there burns a perpetuall fire Odoard, Barbofa. In the Island Del Moro, there is a Fire cast forth with such a noise, that: it is equall to the loudest Cannon, and the darknesse is like Night. The Athes fo abound, that houses have funk down under them; and Trees have been barren for three yeres, their boughs being lopt off, allplaces are fild with Ashes, and living Creatures destroyed with hunger and pestilence, also sweet waters have been changed into bitter. Diat. Jesuita. Also there are concealed Fires, namely there, where the waters run forth, hot, warm, or fower, or where exhalations break forth, good or bad, and where places feem adust. Strab: in Geograph: There is a Country in Afia, which is called Aduft, which is 500 furlongs long, and 50 broad, whether it should be called Misia, or Meonia, faith Strabo. In this there grows no Tree but the Vine that brings forth burnt Wine, so excellent that none exceeds it. You may not think that those Fires say only in one straight place, for they pass many miles under ground; Agricol. 1. 4. de nat. Effl. c. 24. in Campania, from Cuna, thorough Baianum, Puteoli, and Naples. Also out of: Campania they feem to come as far as the Islands, Anaria, Vulcania, Get. Hence Pindarus elegantly faigned that the Gigant, Typl o, being firicken with a Thuider-Bolt, lay buried under these places.

Artic. 4. Of the Original of Subterraneall Fire.

What it is that kindles and nourishern them. The Poets: speak Fables concerning Atma, (but of this, more in the 4th Chapater) Hyginius Mytholog, cap. 152. Hell of the Earth begat Typhon, of all wast magnitude, and a wonderfull shape, who had 100 Dragons heads that sprang from his shoulders; He rhallenged Jupiter, to strive for his King-dome, supiter hit him on the breast with a burning Thunder-bolt, and having sired him, he cast Mount Atma upon him, which is in Sicilia, and from that time it is said to burn yet. Isdor 1, 14, c. 8, ascribes it to Brimstone that is kindled by the blasts of winds. Institute assirting, that it is now what sire, or what matter it burnieth; but since that brimstone is dug, forth of all Mandia, it should appear, that a brimstony matter was some

fometimes kindled there. Nor far from Hella ate Dies of brinffenes faith Berriar, in Handia. That is certain, that brimstone affords not in the for this fire under ground, and it is such as will burn in Water, For in these Mountains Writers make mention of waters, and we have shewed, that it hath sometimes burned in the Sea. Bur Ly diat; L. de orly fort, thinks, That in the gulfs of the Sea, a most visiblent fire is contained; and he demonstrates this by Earth judges. Therefore the food of it cannot be dry, and like to the Earth which we call Dorfa; for that is quickly consumed by fire, and is quentied by water. Nor is it Marie; for that will not burn, unlesse it be sufficient with water? I therefore it is Bitumen; and this seems to be the subject of it.

Of Fire.

ter; and Pliny addes, 1. 2. c. 106. That it burns with water running from Brumen. Burning Blumen fends forth fire in Hecla Mountain Brumen and forth fire in Hecla Mountain in The fones of Rivers and the fand; burn at Hephépios, a Mountain of Lycia, and they are blittiffed nous. Naphra is very near akin to fire, and it prefently flames? Pliny, I. c. Wherefore we think Bitumen to be the food for these fires, and they are kindled by a fiery vapout that takes fire, if but cold thrust forth, as the Clowds thrust out lightnings, of drives it into some narrow places, where rolling it self up and down, and seeking to come forth, it but is in the conflict; and flames; Agrical, lib. cit.

Artic. 5. Of the Miracles of Pire in durations burning, and in being Entinguished.

Come Fires are perpetuall. The stone Afbellos) once lighted can Diever be extinguished; therefore Writers say it was placed in Idol Temples, and the Sepulchres of the dead Solinas c. 12. There, was a Monument once dug up, wherein was a Candle that had burned above 1500 years; when it was touched with the hands, it went to fine ashes: Vives adlib. 21. de Civitat Dei! Vives faw wicks at Paris, which once lighted, were never confumed. In Britary the Temple of Minerva had a perpetual fire; when it confumed, it was turned into balls of stone; Soliniu, c. 24. Polybift. The fame thing is written of a certain Wood near to urabin in the New-found World. There are some fires that burn not, either not at all, of in some certain matter, or elfe miraculoufly. In Pytheduffs, laith Ariffolle admin rand, c. 35. there is a fervent and hot are that burns not: Am All. that fladowes the Waters called Scintile, is alwayes green. Plint lib. 2: c. 107. In the Mountain of Pulcott confilling of Briffshires there is a fire conies forth, that is neither kindled not augmented by oyl, nor wax, or any far matter, nor is it quenched with water, or king dled, and it will not burn towe cast into it, nor can any Candle be lighted by it. ! Mayolus Colleg. 22. he conceives it is not five, but fivey water. Near Puthy in Eyeld, flame is call forth of a field, you male

Classis II.

feel the heat if you put your hands to it, but it will never burn. The parts of the ambient ayr that are cold and moift, are faid to be the cause of it, that by their thinnesse entring into the fire, do hinder the. burning of it. Some napkins made of a kind of Flax will not burn: and being durty, they are never washed; but being cast into the fire they are madeclean; Lemnius in l. 2. de occult. That kind growes in. the deferts of India, where such is the condition of the Ayr, and the quality of the Earth, which causeth such a temper of the Plants, that they may be spun and woven into linnen Cloth. Wood and Planks, if they be anointed with Allum (I add, and smeared with Eggs) they will not burn, Plin. 1.29. c.3. Nor will posts painted with a green colour, fo you do it thick, and Allom with the aines of white lead be plentifully mingled with the paint: Because the wood is thickned and hardened, the fire cannot enter. Hence it was, that Sylla could not fire a Tower that was smeered with Allom. C. Casar set fire to a Castlenear to Po, that was built of Larch-tree, and it would not burn, Vitrav.1,2. c.9. for the Larch tree is not onely free from rottennesse, nor will it resolve into coles. The cause is the compacted matter, Lemnius, 1. c. What shall we say of Pyrrhus, on whose great joyne of his right foot, fire could not prevail? What of Zwinglius, whose heart was not touched after his body was confumed by fire, Thuan.l.5. Histor. The Salamander lives safe in the midst of the flames, if we credit Pliny; And the bottom of the Cauldron is cold, when it stands in the midst of the fire, and the water boyles, the fides are red hor. Yet Dioscorid, writes, 1.2. c. 52. That the Cauldron being cold by nature, doth for a while keep off the fire by being so near to it, but at last it burns and wastes. The reason of this is from the Pyramidall figure of the fire, which ascends in a point, and the thin parts rise up first; the thicker are cast to the sides; Keckerm: Disp: 4. Phys: coral: 10.

In the Scriptures we have examples, God appeared to Moses in a flaming bush, the bush did not burn, Exod. Ch. 3. Elias was taken up into Heaven, with a fiery Chariot and horses. The three Children, cast into the fiery furnace in Babylon, had not a hair touched, and they were consumed that came but near, in the Apocryph: ad c. 3. Daniel is. Eugenius relates what befell an Hebrew Boy at Constantinople. So much

for Burning.

Now for putting it out: A certain fire came forth of Mount Hecla, which is extinguished with Towe; that which comes forth of the Mount Chimera, is put out with Hay, or Earth: At Cullen of the ubii, with flones, or cloathes. But when Charles Duke of Burgundy had taken the City of Geldria, the ground was burnt, the graffe and roots burned, the fire could be extinguished by no art of man; it penetrated into Burgundy; Fulgosus, l. I. To these I shall adde those Chymicall devices of Tritenhemius, whereby he procured everlasting fires, as an Anonymus reports in Aureo vellere, in the name of Bartholmaus Korndorferus. Now there are two Eternal Lights. The first of them is made by mingling brimstone and calcined Allum, 4. ounces, and by fubliming them, they are made flowrs. He joyned 2 ounces and a half, toury dunamat Honor Wooders dike Cerystall; manderolthe id bishad bruifed and busing and lower and all the special property of the property of t four times distilled and making digestion wand drawing that toff the poured on new, and his did this hwite subrice on four times, untillined bringtone made hopingon plates of braffe, would run like wax willne out moke. This is the food of in Afterwards the Wick mult be that's ordered; The small thords of the stone Webellos, about the long the of the little finger, and about half forthick, mult be tyed together with white fill ... The Wick thus made is fprinkled with bright one of the forefaid matter in a Venice-glaffe, and it is put under ground, and sist boyled in hot fand \$4 hours, the brimstone alwaics boyling upper the wick fo anointed and wer, is purinto a hollowiglaffe, that it may a little comoforth, the prepared Brimftone is heap'd on the glaffe little into hordand, that the Brimstone may melt and hold fastifishe wicked then will this fet on fire, burn with a continual flame , you may fee the Lamp in any place. This is the first eternal Fire. This is the first eternal Fire. The latter is made thus: To a pound of decrepit Salt pour on Arong

Wine Vinegar : Draw it off to the confistence of oyl, pur on news let it freep, distill it as before, and do this four times. Infuse in this Vinegar glasse of Antimony finely powdered, one pound; fer the infufion in hot aftes 6 hours in a close veffel, and draw out a red tincture. Pour off that vinegar, and pour on more, and draw it off again, repeating the labour, until all the colour be resolved and drawn forth? Coagulate the extractions to the confisence of oyl, and recific it in Balneo till it be pure! Then take the powder of Antimony, our of which the rednesse was drawn, and make fine flower of it put it ins to a glasse, and pour on the rectified oyl; draw it off, and pour it on 7 times, untill the body have drank in all its oyl, and become drive Drawout this by the spirit of wine, changed so often untilliall relie Substance be drawn forth; distill the Menstraums collected in a Venice Viol, covering it with a five doubled paper, that the spirit coming forth, the incombustible ayr may remain in the bottom : which must be used with a Wick, as that of Brimstone before it quant sales the conditional parameters in the parameters of the conditional parameters and the conditional parameters are the conditional parameters and the conditional parameters are conditional parameters and the conditional parameters are conditional parameters and conditional parameters are conditi

CHAP. II.

Of the Ayr. Soddings the agrado well only Artic. 11 Of the three Regions of the Ayrado well only

Hilosophers make 3. Regions. The Region in the middle is so A. cold that it is almost ready to freeze the Kite, which is wonter live there in the dog dayes from Noon cill Night; or his limbs fliculd grow fliff by flaying there too long. a mades were the sound reasing And in the Alps there is alwaies to much flow, that in Summer the passage is dangerous. They that have erept up to the tops of the Mountaines of Baldut, in the Country of Verma, feel no leffe cold in July and August, than in the coldest Winter estaldrowing comitty land

40

c. 15. Some think the aire to be so thin there, that a man can hardly live. Augustin. de Genes. ad liter, 1, 13.6.2. reports from othermen, that such as go to the top of Olympus, either to facrifice, or to view the Starrs, carry sponges with them wet in water, to breathe with. But from the History of the flood, and others, we may observe that some Mountaines are so high, that they are above the Clouds, and yet a man may live in that ayre, Libav. de orig. rer. 1. 6.

There is in the Island Zelainum, a very high Mountain, and most pleasant on the top. In Arabia Falix there is an extreame high Mountain, and there is a Town on the top of it. If we observe the force of the aire, it is notable: Philosophers speak much of it. Cardan saith that is the shut up, it corrupts living Creatures, and preserves dead things; but the open Ayre is contrary. But examples will hardly make that good. In the Navigations of the Portugalls, some Marriners under the Equinoctials had allmost breathed their last, though it were in the middle of the Sea, and a in a most open ayre. And when we were present, saith Scaliger, Exercit 31. some Italians of Lipsia in the Stoves were like to swound; and you may remember from Histories concerning the death of King Cocal. Wheat in Syria laid close in Mows corrupts not, but is spoild shut up in Barnes; if the Windows be open, it takes no harme.

Artic. 2. Of the Infection of the Ayre.

The Ayre doth not allwaies retain its own qualities, it is infected fortimes with hurtful things. They that go out of the Province of Peru, into Chila thorow the Mountains meet with a deadly ayr, and before the passengers perceive it, their limbs fall from their bodies, as Apples fall from Trees without any corruptions, Liburius de Origine rerum. In the Mount of Peru Pariacacca, the ayr being fingular, hrings them that go up, in despair of their lives. It causeth somit so violent that the blood follows, it afflicts them most that ascend from the Sea. and not only Man but Beafts are exposed to the danger. It is held to be the highest, and most full of Snow in the World, and in three or four houres a man may passe over it. In the Mountains of Chilium, a Boy fustained himself three dayes, lying behind a multitude of Carcases, so that at last he escaped safe from the Venomous blasts. In a Book concerning the proper causes of the Elements, it is written that a wind killed the people in Hadramot. The fame Authour, reports that the fame thing hapned in the time of King Philip of Macedo, that in a certain way between two Mountaines at a fet hour, what horsemansfoever past, he fell down ready to die. The cause was not known. The footwere in the same condition, untill one Socrates by setting on high, a steel Looking-Glasse, beheld in both Meuntains two Dragons casting their venomous breath one at the other; and whatfoever this hit upon, died, Liban. l. cit. But the true cause of this mischief was a mineral ayr, stuft with nitrous and other metallick Spirits. Such a one is found in some Caves of Hungary and Sweden, and we know that the Common Saltpeter is full of Spirits; it is moved dangerously and forcibly if sirebe put to it, and cast into water, it cools them much. But that bodies corrupt not, that we ascribe to cold, but it may be attributed to the Spirits of cold by mixture, such as are in some Thunder-bolts, for the bodies of living Creatures killed by them do not easily corrupt, and they last long, unlesse some more power-

Of the Ayr.

Chap. 2.

full cause coming, drive it out.

Artic. 3. Of the Putrefaction of the Ayr.

He Pestilence comes from putrefaction of the ayr: which in re-1 spect of divers constitutions is divers. It is observed that there never was any at Locris or Croto: Plin. 1. 2.99. So in that part of Ethiopia, which is by the black Sea. In Mauritania, it ruins all. It lasted so long somtimes at Tholouse, and in that Province, that it continued seven years. It perseveres so long, and oftimes, amongst the Northern people, and rageth so cruelly, that it depopulates whole Countries; Scaliger, exercit, 32. It is observed in the Southern parts, that it goes toward the Sun fetting, and scarse ever but in winter, and falts but three months at most. In the year 1524, it so raged at Millan, that new baked bread fet into the ayr but one night, was not only multy, but was full of Worms, those that were well-died in 6, or 8, hours; Cardan de rer. varietat. 1. 8. c. 45. In the year, 1500 it destroyed 30000 at London, somtimes 300000 at Constantinople; and as many in the Cities of the Vandalls, all the autumne thorow. In Petrarchs dayes, it was so strong in Italy, that of 1000 Men scarse ten remained. Alsted in Chronolog. But that in divers Countries it works so variously on some men and severall Creatures, that proceeds from the force of the active causes, and the disposition of the passive. Forest. 1 6. olserv. de Febre. If the active cause from the uncleanness of the Earth or water be not strong, it only affects those beasts that are difposed for such a venome; but if it be violent, it ceazeth on Mankinds yet so that of its own nature, it would leave neither Countrey, nor Cittie, nor Village, nor Town free. This layes hold on men in one place only. But if the active force be from a superiour cause, or be from the ayr, corrupted below, Mankind alone are endangered by it. But if both a superiour and an inferiour cause concur, then may all living Creatures be infected with the Plague, yet it must be according. to the disposition of their bodies.

State of the current

Mo man almost is ignorant, but that the Ayrserves for the Life of man; for the branches of arteria venosa, drink in blood from the whole Lungs, brought to them by the arteria venofa, and it is made more pure in them. The Ayr drawn in at the mouth is mingled with the blood, and this mixture is carried to the left ventricle of the heart, to be made spirituous blood; Ludovi: du Gardin Anatom: c. 40. But being drawn in heaps it strangles, Zwinger, Physiol. 1. 2. 6.23. For if you compasse a burning Candle in the open ayr, with wine from above, you put it out; because it cannot attract the Ayr prepared on each side, by reason the wine is betwixt, and it cannot from below draw the crude and unprepared Ayr. The defaphoretick force of it will appear in an Hgg; when that is new, a pure spirit sweats through its shell, whilest it rosts, like unto dew. What will this do in the body of man? It will make that full of chinks, if it be touched by a small heat: otherwise it fills and penetrates allthings. It pierceth thorow a brick, and there it inflates the concocted lime, fo that the quantity of it is increased till it break it.

We lee that the Ayr entring by the pores of a baked brick, doth swell a stone that was left there for want of diligence, and is turned into Lime; and to puts it up, till the brick breaks, Zminger, Phys.l.2. c. 23. Farther it is concluded by certain observation, That a wound is easie or hard to cure by reason of the Ayr. In Fenny grounds wounds of the head are foon cured, but Ulcers of the Legs are long: Hence it is, that wounds of the head are light at Bonnonia and Paris, but wounds of the Legs are deadly at Avignon and Rome. There the Ayr is of a cold constitution, and is an enemy to the brain: here it is more libr, whereby the humours being melted, run more downwards, Patiens, 1. 10. Chirurg: c.8. It may be cooled 9 wayes, by frequent ventilating of it with a fan that fresh ayr may come; if Snow and water be let about the bed; if the walls be compassed about with Willow leaves, or with linnen cloaths dipt in vinegar and Rose-water, if the floor be sprinkled, and fountains made to run in the chamber; if beds, faith Avicenna, be made over a pit of water, If beds be made of Camels hair, or of linnen, laying the skin under them: If the Bed be strewed with herbs; and lastly, if fragrant fruits be placed near the bed; Heurn : lib, 2. Medic. c. 18.

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CHAP:

Of the Water.

Of the water.

Artic. 1. Of the quantity and colour of waters.

CO much for Ayr: Now followes the Element of Water. And Darft we thall confider the quantity, and the colour of it. In the Country of the great Cham, near the City Simpli, there is the River Quian, which is 10 miles broad; and waters 200 Cities, and litis to long, that it cannot be failed in 100 dayes. Polis writes, That he told in the Haven of it 50000 Ships. Also in Moseovia the Duina is fo great by the melting of the Snow; that it cannot be paffed over in a whole day with a well fayling Ship, it is at least 50 miles broad. Jovius, a Lake of Genebar, the Portingalis call it landary! Thuandiffor. 1.16. is so large under Capricorn, that men write, who have failed thither, That all the Ships in the World may well harbour there. As for Colours, they are different in many waters. Danubinits Whiteas milk and water, which divides Norteum, and windelicia from Ger? many, Agricol, de Natur . effluent. The Warers of the Mayn, especially where it hath passed the Francks, and is fallen into the Rheymare vellowish. The Fountain Telephus is muddy near Pathra, and mingled with blood. In Ethiopia there are red Waters, that make one mad that drinks them. At Neufola in the Mountain Carpathus, Waters runing out of an old passage under ground, are green. At Ilza, that which comes forth of the Mountains of Bohemsay and runs into Danue bins, isoblackers and more and all the state of the control of the state of the sta

Artic. 20 Of the Taffe of water 1 and to sald out to ्रे कार्य के कार्य कार्य कार्य के कार्य कार्य

Here is no lesse variety of Wardes in their tastes. Some are sweet, some taste like wine you shall find every where states Allom tasted, sharp bitter waters every where. The Waters of Elew, Chocops, Rivers, are freet: 'The Kings of Perfla drank of them, and transported them to far Countries. The water of Cardia in a field called Albu, is sweeter then warm milk. Pausanias. \ So is Winosu near Paphlagonia; whence to many strangers come thither to drink of it. In the bosome of the Adriatick Sea, where it turns to Aquillia ithere are 7. Fountains, and all of them, except one, are falt, Polybl in Hift. At Malta there is one, that the waters running above are very sweet, but the lower waters are brackish, Aristobul: Cassand. The small River Exampless is so bitter, that it taints the great River Hypanis in Pontus. In the Lake Afranium, and some Fountains about chalcis, the upper waters are sweet, and the lower taste of nitres! Plin. in! Hift. The Fountains are four about culma; and because the water, though it be cold, boyls, they feem to be mad, Agricol. lib. cit. In the fame place there is a Mineral water, which they call Furious, because it boyls

Chap. 3.

boyls and roars like thunder. In Cepujum at Smolaicium, it not onely cats iron, but turns it into brasse. But the water about Tempe in Thelsalv, of the River Styx, can be contained in no vessel of silver, brasse, iron, but it eats through them, nothing but a hoof can hold it.

> Artic. 3. Of the Smell of water: and of the first and second qualities.

He hot Baths that are distant from Rhegium, the Town of Lipi-L du Emilius 26 miles, smell of so gallant Bitumen, that they seem to be mingled with Camphir. There was a Pit in Peloponnelus near the Temple of Diana, whose water mingled with Bitumen smelt as pleasant as the unguent Cyzicenum. In Hildesbam there are two Fountains; the one flowes out of Marble that smells like stinck of rotten Eggs, and taste sweet: but if any man drinks of it fasting, he will belch, and smell like the Marble pownded: The other is from Brimstone, and smells like Gun-Powder: The water of this brook, covers with mud the stones that lie in the channel of it, scrape it off and dry it, and it is Brimstone, Agric. lib. cit. Arethusa, a Fountain of Sicily, is said to smoke at a certain time. At Visebad, there is a Spring in the Road-way, the water whereof is so hot, that you may not onely boyl Eggs in it, but scall'd chicken, and hoggs; for it will fetch off

feathers or hair, if you dip them in, or pour it upon them.

Ptolomy Comment, lib. 7. assirms, That at Corinth there is a Fountain of water, which is colder than Snow. Near the Sea-Banks at Cuba, there is a River fo continual, that you may fayl in it; yet it is fo hot, that you cannot touch it with your hands, Martyr Sum, Ind. ! Near the Province Tapala it runneth so hot, that one cannot passe over it, Ramuf.tom. 3. At Segesta in Sicily, Halbesus suddenly growes hot in the middle of the River. Pontus, is a River that lyes between the Country of the Medes and the Scythians, wherein hot burning stones are rolled, yet the water it felf is cold. These, if you move them up and down, will prefently cool, and being sprinkled with water, they shine the more bright. Lastly, near the City Ethama, there is a River that is hor, but it is good to cleanfe the Lepers, and fuch as are ulcerated, Leonius. Also some waters swim above others. Arfanias swims above Tigris that is near unto it, so often as they both swell and overflow their banks: Peneres receiveth the River Eurôta, yet it admits it not, but carrieth it a top of it like oyl for a short space, and then for sakes it, Plin. hist. Natural.

Artic.4. Of the Diverserunning of the water.

T'T is faid of Pyramus, a River of Cappadocia, which arifeth from I Fountains that break forth in the very plain ground, that it presently hides it self in a deep Cave, and runs many miles under ground, and afterwards rifeth a Navigable River, with fo great violence, that if any man put a sphear into the hole of the Earth where it breaks forth again,

again, the force of it will cast out the sphear; Strato 1. 12. Not far from Pompeiopolis in the Town Coricos, in the bottom of a Den of wonderfull depth, a mighty River rifeth with incredible force; and when it hath ran with a great violence a short way, it sinks into the Earth again, Mela. I. 1. 6. 6. The Water Marlia after it hath run along tract, from the utmost Mountains of the Peligni, passing through Marsus and the Lake Fucinus, it disemboggs into a Cave, then it opens it felf again in Tiburtina, and is brought 9 miles with Arches built up, into Rome, Plin. 1.3 1. 6,3. The Sabbatical River was wont to be empty every seventh day, and was dry; but all the fix dayes it was full of water. But that ceased when the sacrifice ceased, Tofeph. 1.7.0.24. There is a certain River Bocatius speaks of, every ten years, it makes a mighty noyle, by the stones striking together; and this is fuddenly in a moment, and the Rougs ran downwards for 3. dayes, and 3 or 4 times a day, though it be fair weather; and after three dayes all is quiet. Strabo writes of the Rivers of Hircania; l. 11. There are in the Sea high shores that are prominent, and are cut forth of Rocks; but when the Rivers run out of the Rocks into the Sea with great violence, they paffe over a great space as the fall betwint the Sea and the Rocks that Armies may march under the fall of the waters as under Arches, and receive no burt. Trochlotes in North Norman makes luch a noyle when it runs, that it is heard 20 miles, Olaus, 1,2, 5,28, Basa in Livonia runs forth of the Rocks with such a fall, that it makes men deaf, Ortel: in Livon. Tupais, by a very long passage from southin, falling into the Lake Meatis, it makes it fo long and broad, that those that are ignorant of it, take it for a great Mountain, Boccatius. In Solomon's Temple there ran a Spring, great in Summer, small in Winters Euleb. praparat. Evangel. 1.9. c.4. If you ask the caule, it is taken from the Time. All things are wet in Winter, then are the Channels fulls, and for want of evaporation the waters are kepr in. But in Summer all things are dry, and the Suns heat penetrates. Hence it is that they are congregated in their Fountains, and run out by the Ayr inforcing them, Meander is fo full of windings and turnings, that it is often thought to run back again, &c. He that feeks more concerning Nilus and other Waters, let him read Geographerrs.

Of the Water.

Artic. 5. Of the change of quantity and of qualities, in waters.

His great variety in Waters that I have fet down, is a token of 1 the wisdome and power of God; and it is no lesse wonder, that the same waters should be so diversly changed. It is certain that they are changed. A Fountain in the Island, Tenedos alwayes from 3. at night till 6. after the Summer Solftice, overflowes. There is another in Bodon, that hath its Name from Jupiter, it fails always at Noon-day; And the River po in Summer, as if it took its relt, growes dry, faith Pliny. In Italy, Tophanus & Fountain of Anagnania is dry when the Lake Futinus is frozen; at other times of the year it runs with great, quantity of water, Agricold, cit. paßim. The Waters of the Lake of BaLylon are red in Summer. Borifthenes at some times of the year seems to be died with Verdigrease. The water of the Fountain of the Tungra is boyling hot with fire subterraneal, and is red. The Waters of the River Carra by Neptun's Temple were fweet, and are now falt. Bur in Thrace when Georgius Despota ruled, a sweet Fountain grew to be batter intolerably, and whole rivers were changed at Citheron in Beon tia, as Theophrastus writes. Men report, that of the Mineral Waters which run by the Pangaus, a Mountain of Thrace, an Athenian cotyle weighs in Summer 64 grains, and in Winter 96. In the Province of Grene, the Fountain of the Sun is hot at midnight, afterwards it cooles by degrees; and at Sun-rifing it is cold; and the higher the the Sun riseth, the colder it is; so that it is frozen at mid day; then again by degrees it growes warm, it is hot at Sun-set; and the more the Sun proceeds, the hotter it Becomes. The same Fountain every day as it growes cold at mid-day; foit is sweet; as it growes hot at midnight, fo it growes bitter.

Artic, 6. Of some other things admirable in waters.

Hey were wonders that are passed, but greater follow. In those, it is easy to assign a cause, mixture or some such like, if you right. ly consider it; but here it is difficult, for though you may in some, yet commonly we must fly to hidden qualities. I will briefly rehearse them. Some drops of a Fountain of the Goths powred upon the Earth, cease to move, and are thickned by the ayr. The waters of Gepusia in Pitchers turn into a Stone, those of Rhatid make people foolish sthey pull out the teerli in two years ; and diffolve the ligaments of the finews, which Pling writes to be in Germany by the Sea-fide. Those of Istantia change things that are hollow into itones. Tybur covers Wood with Rone covers. Zamenfes in Africa makes clear voyces. Soruttes when the Sun rifeth, runs over, as though it boyled ; birds that thon drink of it die. He growes temperate, who drinks of the Liake Clitoria in; and he forgets who drinks of a well nere the River Orchomenia, facted to the God Trophonius , Philarch. He proves dull of wit that drinks of a Fountain in the Island Cea. Agricola de rela d' terra effluent. gives a cause for it, as for the former, by reason of the bitumen. For, faith he, the feeds of wild Parfnips wrapt in a linnen clout, and put into wine, as also the powder of the flowers of Hermodactylus, which the Turks use, being drank with it, are the cause that it will make a man sooner and more drunk's To some kind of Bitumen mixt with water is wont to make men drunk. The horses, drinking Sebaris are troubled with sneesing, whatsoever

is sprinkled with it, is couloured black. Clitumnus of umbria drank of y makes white Oxen, and Cesiphus of Beotia white sheep : but a River in Cappadocia makes the hair whiter, fofter, and longer. In Pontus, Thu ces waters the flelds, in which Mares are fed, that feed the whole Countrey with black milk... The waters in Gadaris make men bald, and deprive Cattle; of hair, hooffs and horns. Cicero writes that in the Marthes of Reale, the hoofs of bealts are hardned. The horbaths

at the Fort of New-house, colour the Silver Rings of such as wash in them with a Golden colour, and make Gold Rings more beautifull. Aniger that runs out of Lapithum a Mountain of Arcadia will nourish no fish in it, till it receive Acidan, and those that go then out of it into Aniger are not edible, but they in Acidan are, Pausanias, Agrigentinum a Lake of Sicily will beare those things that do not swim in the waters. In Athiopia there is one fo thin that it will not carry up leaves that fall from the next Trees. In the lake Alphalities a man bound hand and foot cannot fink. The cause is held to be the great quantity of Salt. Hieronymus Florentinus, faw a Bankrupt bound and cast headlong from the Tower into it, and it bore him up all the night. Polidonia observed that bricks in Spain, made of Earth, with which their Silver plate. is rub'd, did swim in the waters. Cleon and Goon were two Fountains in Phrygia; either of their waters made men cry. There were... two in the fortunate Island; they that tasted of one laught till they died, the other was the remedy for them.

Of the Water.

Chap. 3.

Anauros of Thesialy and Boristhenes, send out no vapour, nor exhalation: many refer the cause of it to its mixture, others seek it otherwhere. Agricola. 1. 2. de effl.ex terr. c. 17. faith, In what part of the Rivers, the Channels in the Fords have no veins and fibres, by that they can breath forth no exhalations. In the snows of Mount Caucasu, hollow Clods freez, and contain good water in a membrane: there are Beafts there, that drink this water, which is very good, and runs forth when the membranes are broken. Strab. in Geograph. Nilm makes women so fruitfull that they will have 4, and 6, at one venter; Pling in Histor. There is a Well of water, that makes the inhabitants of the Alps to have swollen throats. Lang. 1. 5. Epist. 43. But in field Rupert neer to Argentina, there is a water said to be, that makes the drinkers of it troubled with Bronchocele, they feem to be infected with quick filver: for this is an enemy to the brain and nerve, for it not only fends back flegme to the glandulous parts of the head and neck, bur that which is heaped up in the head, it throws down upon the parts under it, Sebizin de acidul.f. 1. diet. 6. Corol. 1. thef. 12. Diana, in River of Sicily that runs to Camerina, unlesse a chast woman draw its water, it will not mingle with Wine; Solinus, C. 10. Styx in Areau dia drank of, kills presently, it penetrates and breaks all; yet it may be contained in the horns of one kind of Asse, Seneca. l. 3. natur, c. 25. Two Rivers runs into Niger, a River in Africa, one is readish, the other whitish, Barrens. Histor. dec. 1.1.3. c. 8. If any man drink of both, he will be forced to Vomit both up, but if any man drink but of one, he shall Vomit leasurely, but when they are both run into Wiger, and a man drink them mingled, he shall have no defire to Vomit. Narvia is a River of Lithuania; so soon as Serpents tast of the water they give a his, and get away. Cromen, descript. Polon. 1. 1. A Fountain of Sardinia, in the Mediterranean, keeps the length and shortnesse of dayes, and runs accordingly. In the Island of Ferrum stone of the Canaries, there is no water, the Ayr as fiery, the ground dry, and man and beaft are fad for want of water. But there

is a Tree, the kind is unknown, the leaves are long, narrow, and allways green. A Clowd allwaies furrounds it, whereby the leaves are fo movifined, that most pure liquour runs continually from it, which the inhabitants fetch, fetting vessells round the Tree, to take it in. Bertius in descript. Canariar. Sea-waters if they be lukewarm, they portend tempests before two days be over, and violent Winds. Lemnius de occult, 1. 2. c. 49. In England, nere New-Castle there is a lake called Myrtous, part whereof is frozen in Summer. Thuan, in Histor. But I have done with these. Authours have more, if any man desire it, especially Claudius Vendilinus, whom I name for honour sake, if he feek for the wonders of Nilus.

> Artic. 7. Of some Floods or waters; and of the Universall Deluge.

He Floods were figns of Gods anger, and so much the more as that was greater, and mens fins more grievous. The greatest was that we call the generall Deluge, which began about the end of the year of the World, 1656. All the bars of the Channels were broken, and for 40 dayes a vaste quantity of water was poured down. Also the Fountains of the great Deep were cut asunder; so that the Waters increased continually for 150 dayes, and passed above the highest Mountains 15 Cubits. At length they abated by degrees; for after 70 dayes the tops began to appear. The Inhabitants of the New World say, they had it from their Ancestours. Those of Pera lay, that all those Lands lay under waters, and that men were drowned, except a few, who got into woodden Veffels like Ships; and having provision sufficient, they continued there, till the waters were gone: Which they knew by their dogs which they fent forth of doors; and when the dogs came in wet, they knew they were put to fwim; but when they returned dry, that the waters were gone, August. Carat. But they of Mexico fay, that five Suns did then shine, and that the first of them perished in the waters, and men with it, and whatfoever was in the earth.

These things they have described in Pictures and Characters from their Ancestors; giving credit to Plato's Flood, which was faid to have hapned in the Island Atlantis. Lupus Gomara. But Lydiat ascribes the cause of that universal Deluge to a subterraneal fire in a hotter degree, increasing the magnitude by rarefaction, so long as it could not got out of its hollow places. Genesis seems to demonstrate it. For the Fountains of the great Deep are said to be broken open; and that a wind was sent forth after 40 dayes, and the waters were quieted. We mult understand a wind from a dry Exhalation, which a subterraneous firemuch increased, had most abundantly raised out of the deep of the Sea, which was then thrust forth of them, and did increase the motion of the ayr that it laid hold of, together with the revolution of the Heavens, and the vehemency of the Firmament. But there were other miraculous Deluges besides this.

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elicomoro, fed anionelli inc tor upon care of corne suignationale disberting word annive in turbeout assisted of corne and the part of their increasing water are proportional in the pack. He at last were around with the one of their positive for their positive relief of rather positive for their positive relief was a sent to any and control and their positive relief to their sold and their positive relief to their and their positive relief to their and their positive relief to their anions are to their sold and their positive relief to their anions are their sold and their positive relief to their as in the definition of the design and the service of their was dearest to their as in the definition of the design as in the definition of the design and the service fear whither their flocks, and age of the their of the standard for the day to low use they are their chambles of indicate the day to low use they are made their chambles of indicate the day to low use they are more than their chambles of indicate the day to low use they are more their chambles of indicate the day to low use they are more their chambles of indicate the day to have a sense of the sense of the figure details in the day to have a sense of the sense of the figure details in the day to have a sense of the sense of the figure details in the day to have a sense of the Tarell, and all periffing for hunger. Thole, that Average is a most their for the waver was entred to miles may the Land, were moved with compassion, and lent Bosts to the top of the hall almost located with librard and water and wrought themselves a pelloger hopes thoms and briars to come to melt milesable people, and start to come to melt milesable people, and start to come to melt milesable people, and start to come to melt milesable people. Thurn and we confirmit. tiles, ever til skrivet boster bleske til

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That I will before thows that there are ignumerable found isoth the while to hours whence they have their Oniginally Sooth will have the hours which waters come from rain. I when write that they came from the garth changed into water of spillings of the Ayr, thut up in their minimum and their thei the fifth the them ships above to foot into the Earth, and when it is saying with the transfer the saying a state of the saying a sayin parismed with the affine placed springs of watervilo moments you are well and placed for the water subject of water subject of the water subject of early bostomed their water subject of the water su the the cost in feel to find this this his the states flow; con consider this in the states HANDERS AND THE TAY STORE TO ORDER OF THE PROPERTY OF THE PROP

Chap.4. Of the Original of Fountains.

Sea by passages under the Earth. The Sea alone is sufficient to supply all Springs; and when we see that it no wayes increaseth by the Rivers that run into it, it is apparent that they run to their Fountains by fecret channels. But the question is, of the manner how they alcend. Socrates alcribes it to the Toffing of them; Pliny to the wind, 1.21. 0.65. Bodin, 1. 2. Theatr. to the weight of the Earth driving forth the water. Scaliger, to the Bulk of the Sca; others, to vapours redoubled into themselves. It is a hard matter to define all things, nor is it our purpose.

But because Thom: Lydiat, an English Man, hath written most acutely of this Subject, we will fer down his opinion here, contracted into a

few Propositions:

I. The Rolling of the water is not the cause of its ascending to the superficies of the Earth. For there is no cause for its tossing, and wherefore

then should it not at length stand levell?

II. To be driven with the wind, is not the cause. 1. For it seems not to be raifed in the Sca by a fixed Law of Nature, but by way of Tempest. 2. The Channels are winding, and should carry it rather to the sides than to the superficies. 3. It a contrary wind cannot do fo much in any water, what then can the wind do here? Also if there were any receptacles for the waters forced upwards, Miners, those that dig in mines, would have found them out, as Vallesias faith.

III. The weight of the Earth squeefing out the water is not the Cause. For the Earth doth not lye upon the waters, but contrarily where the Conduits are not full, the lower part is not empty, but the upper

IV. Nor the Bulk of the Sea. Scaliger thinks that the Waters being pressed in the channels by the Sea lying upon them, do seek to get forth. His Example is of a stone in a vessel. But two things are here assumed. 1. That the gravity is every where, the same as in the weight of a stone. 2. That a great part of the Sea water is out of its place.

V. Nor yet vapours redoubled into themselves, and so drawing; nor the Spungy Nature of the Earth, nor the veins of the Earth, whereby the moyflure of the water may be drawn forth. For 1. attracting forces would be more fit for Champion ground, than for Mountains. 2. If they should attract, it were for that purpose that they might have the fruition of it, but from whence are there such Rivers? 3 The veins of war ters are no where found fo full, as that reason requireth, whether it be for blood in living creatures, or for fquirts.

VI. The water is raifed out of the Caves of the Earth, to the Tops of Moun-

tains, as the Sea is raifed above the middle Region of the Ayr.

VII. But this Elevation is made by the force of heat resolving the water into vapours. Aristotle himself intimates, that heat is required; but that water may be made of a vapour, there needs no cold, but a more remisse hear.

VIII. The heat of the Earth proceeds not from the heat of the Sun, namely of the Earth in its Intralls. For first, it can penetrate but two yards deep, and therefore the Troglodites make their Caves no deeper. 2. In

32 Of the Original of Fountaines. Classell)

the hortest Summer a woodden post, that is but one or two Hickes thick is not penetrated. 3: The entralls of the Earth about 8 or 10 yards deep are found colder in Summer then in Winter, a handle if

IX. The Antiperistasis of the cold Ayr in the superficies of the Earth, is nothing to the purpose. I. It is more weak than the cold of the firm Earth. 2. What ever of the Suns hear is bred within, passeth our by the pores and vanisheth. 3. It perisheth being besteged by both

dolds to which it bears no proportion.

X. The heat that is in the bowells of the Earth, is from a double cause. For in the parts nearest the superficies it proceeds from the Sun beams, but in the bowels of the Earth from other causes. That puffeth our by the pores of the Earth in Summer, being opened by the Sun, and therefore it vanisheth when as being removed from its original it is weaker; but in winter it is bound in by the cold. XI. The heat in the bowels of the Earth, is known by the heat of the waters; but these are neither. hot by the Sun nor from brimstone, or quicklime in the conduits, but only from

a subserraneal fire.

Not from the Sun. For, 1. That cannot penetrate fo far. 2. If it were from thence it would be most in Summer. Not from brime stone or quick lime, for brimstone heats not unlesse it be actually heated, and quick-lime, only then when it is resolved by Water. Also the vast quantity of it would be resolved in a short time; and would make a change in the Channels. But it may be understood forme ways, how it may be heated by a subterraneal fire. i. As it is actuall, and so the Channels being solid stone cannot derive it. 2. As it is more remote, but fends forth Vapours by pipes, as in Baths, fo alsonor; for Vapours cannot have so great force as to make it boil. 3. That the Water may run amongst the burning fire, as in bituminous Channels; But here the question may be; why it doth! not cast ourtho Bitumen, as in Samofata a City of Comagenes, Plinysfaith, 1. 2it. 104. and 107, that a certain lake cast forth flaming mud, and fire came our at the Waters of Scantium. 4. The fourth way is the truth. Art doth some wayes imitate Nature, but in Stills the water by the force of heat, is resolved into Vapours, and the Vapours fly upwards, to the heads, where they stick, and being removed from the violent heat, they return to water again, so also in the bowells of the Earth. XII. But Fountains that boyl, feem not to be of those waters that run, but that flaud fill : Namely Wells that have formerly been opened by the quakings of the Earth, which it is no wonder that they are joyned to the Sca. In a small Island against the River Timevus Pling 1, 2. c. 103. writes that there is a hot spring, that ebs and flows with the Sea. In the Gades it is contrary, pling, 1.2. c. 32. But if any of these hot springs dozum, we must observe of them, that their Channels are so scituated, that when the Sea flower, it comes unto them, or if it were come into them before, it powreth forth the more. And so the heat of the fire willinke clther proportionable, and the exhalation greater, or not, and to leffe. XIII, But what Agricola writes of bitaminom waters, and thutsyreld a Imellymust be ascribed to their neerne se but it vanisheth at a farther distance.

Chapis) 230 Of the Water 18 300

The same is observed in artificially distilled waters, that in time the burntuels of them will vanish away. XIV. But because this fire by the Shaking of the Earth can do much in the superficies, it can then do more in the place it is the reason of the extended to

It can therefore stop up old Channels, open new ones, in divers caves of the Earth, without fending forth of the matter combustible or propagation offire, or conflict of Vapours, it can rayle new fires from whence new Rivers may be produced, yet fomtimes also it useeth to be extinguithed, or funk so deep, that it cannot fend its force to the superficies. This is the opinion of Lydiat, which we have fee down more amply; that being better known, it might be more exactly weighed.

Markey and the CHAP. V.

Of hot Baths.

He hear of hot Barhs is diverfly spoken of by Authours. Arifla-I tle thought it proceeded from Thunder, which is false, for the force of Thunder is pestilentiall, any man may know it, that beholds Wine corrupt by Thunder. It makes men mad or dead, but these are healthfull, as experience daily shews. Also there are many places that were never touched with Thunder, for that never descends above five foot. Sennert. Scient. natural. 1. 4. c. 10. thinks it comes from two waters that are cold to be felt, but grow hot in their meet? ing, from repugnancy of the Spirits, as we see in oyle of Tartar, and Spirit of Vitrial, and in Aquafortis and Tartar, and of the butter of Antimony and Spirit of Nitre, all which, though they are cold to the touch, yet if you mingle them, they grow hor, and so that if you suddenly powre oyle of Tartar into Aquaforris, wherein Iron is distolved; it will not only boyle, but the mixture will flame, which also happeneth if you pour fast the spirit of Nitre into the butter of Antimony. Some impute it to the native hear of the earth, or to a certain hor spiric; fo that these natural spirits of exhalations hearing not violently but naturally, in some places the secret channels of the Earth grow hot: that this heat is communicated to the Walls of those concavities by reason whereof a sufficient and continuall heat may be communicated to the Baths, even as in an Oven heated, when all the flame is gone, the bread is sufficiently baked, Horstim de natur. Therman! Others ascribe it to subterraneall fire; but whether it be so, may be known by what proceeded, Bartholin: de aquis.

Farther it may be shewed by an Example: Mingle salt-water with Clay, make of this clay or mud a ball, and hollow it within, then stop the orifice with the clay, and put in a narrow pipe into it, and put this ball to the fire; the pipe being from the fire, when the

Strain Land

ball waxeth hor, out of the ball by the pipe hot water will run, Sennert. 1.4. scient. natural. c. 10. Baths have a taste by the mixture of

Earths: and so have things in the Earth.

Hippocrates I. de natur. human. faith, That there is in the Earth, fweet, fowr, and bitter; and in the bowels of it there are divers faculties, and many humours, 1.4. de Morbis. Every thing drawes its nourishment from the Earth in which it is. Hence in Ionia and Peloponnesus, though the heat of the Sun be very sufficient, yet Silphium growes not, though it be fowed, namely, for want of such a humour as might nourish it. Yet there are in that earth juices, not onely for the vaporous, but also for the moyst and solid substance. Tuices condensed are dissolved by waters, the moyst are mingled, Earths are dissolved, and scrapings of mettals are found. The goodnesse of them differs sometimes; because those that in Summer are beray'd with the Suns heat, and attenuated, are the best: In Autumn they are lesse beat upon by its beams, because he is nearer to them: fo in the spring. For the Earth is opened, the waters are purified, the healthfull light of the Sun approaches: but in the Winter they are worst: for they are heavier, thicker, and more defiled with earthly exhalations. That they suffer changes, we may learn by divers examples.

Fallop. de Therm. c. 11. Savanarola saith, That the Bath waters in the Country of Pifa cause great diseases in those that drink them, and the Inhabitants are warn'd of it. For in March, April, and May, when they see the waters look yellow, and to be troubled, they foresee they are dangerous. Aleardus of Veroneus, a Physician, who writ of the Calierian Baths, faith, That the water of Appoint is sometimes deadly, by the example of one Galeatius a Noble man, who with his

Son in Law drank of it, and dyed.

The tharpwaters of Alfatia are sometimes so tharp, that they cause the dysentery; and sometimes they are feeble, and are deprived of their wonted vigour, Sebizius de acidulis, difs. 50.f. 1. The causes are divers; amongst the ordinary, a rainy, cloudy, dark, Southern constitution of the Ayr, too violent flowing of the Sea, inundations, Earth-

quakes.

It is wonderfull that is written concerning some hot Baths in Germany, that they grew dry when there was a tax fet upon them, Camerar. horis subcif. cent. 2. c. 69. Something like this, fell out in shellfish at the Sluce; for when a kind of tribute was laid upon the collecting of them, they were no more found there; they returned, when the Tax was taken off, Jacob Mayer. in Annal. Flandria.

will wanted being of the bulky slicelands, water will run food and has sufficient means of the field of a casto by the mixture, of Betha Cand Hilayanisings in the Barth. Minural of the farmen by and family the country of the family the family hyers process and places and an discharge section of an object for diller with the training the manufacture of the second Alkardining the total white the first of the first of the force and He Sea in the greatest sharehouse waters which where the completes waters which were the season was the season of Historical Chair Suddistant of the Country of the C per the the hamile of a place and the problem of the state of the stat after was the first the contract and the state of the sta and the time of the control of the control of the state o World. From the Bak in is called the Haltern Sets, from the Miles of the World of t Menting of the Hand of the bolland in about the property of the party perfect the plant Court en La material the United to the and a wind horium, expens that is abound to fland exaling of cary with his ichies thereintered Sco. There and indifferent and the tilestation also After the After the state of th entit Arabust and anisoth from the selve in Books WHICH Atall The Arring or cake for the section and the characters of the character Whole World theh been the dansbury The Deed the orders, acc known the may be well open to the control of the contr flore did the dika ... It is harder fay, when field men beginned fail line theredilantokuses, which is botwoon Expens, Africa, and America It hallibe cleared in our fold wing difference that America was known Tather Septians land Quecians wands hat the Caribagement falled the dilent, built governative distribution of the timeliand view of writes of the failing about it in the middle like of she World: That all the West was sailed over from the SUM

and Hercules Pillars, about Spain and France, in his dayes. But the North Sea for the greatest part was passed over by the happy successe

of the famous Augustus.

We find in Velleius, that Germany was furrounded by failing fo far as the Promontory of the Cimbri, and from thence the vast Ocean was discovered; or known by relation as far as Scythia, and the parts that were frozen, by the command of Tiberim. The fame Pliny tells us, shar Alexander the Great extended his Videoles over the greatell thirt of the East and Southern Seas, unco the Matten thores; whereby afterwards when G. Cafar the son of Augustus managed the businesse, the entigns of thips were known to belong to the spaniabus that had fuffered thipwrack there. But when Carthage flouriffied, Haliandi. led from the Bades to the furthermolt parts of Arabia, and writing that Voyage, and Hamilto at the fame time was four to offcover the outward parts of Europe. Moreover, Cowe Halivepos is the Author of it, in Pliny, that one Eddoxus in his time, when he Bed from Lathyrus King of Egypt, came from the Anabiam Coalty as the as dades, and Celius Antipater long beford him affirms the fame, That he law him, who failed our of Spain into Bibiopean Merchanding The fame Author writes, that the King of Smeden gave freely is Quille, Metellus Celer, Pro Conful of France, those Indians, Who life ded our of India for Traffique, and were by Tenipelis earried into Germany. That Voyage hath been attempted of lates bur with ext gream danger of life, men being hindred continually by Ices and ext steam darknesse. If these things be so, when was all our World life The Line Land of the desired and the land of the land

The is further questioned whitee there be any pallage, through the Morth, Sea, to the Kingdom Way, and to the Molucos, Jovins, separe stand heard it of Demergial Moschus, that Duidha with many Rivers miling into it; ran into the North a wonderfull way; and that the Sea was there open, fo that flearing the course toward the right hand thora Canlelle the land be betwix of monthight faile to Cathay! Thefe of Cathan belong to the furthest parts of the Bast, and the parallel's Thracia, and are known to the Portingalle in India, when they, to buy spices, sayled to the Golden Chersonesus, through the Countries of sina and Cheolacco, and brought with them garments of Sabell skins. Perray Bertius, a man that deferved well for his learning, but ill for divinity, idports in descrip, now, Zemblia, that he fave a Table described the Ruffes ; wherein the fhores of the Ruffes , Samogerans yand Tingers, with the Morth Sea, here tinto them, and Jome Illands were vintely feriforeh. In than the Duina River was farthest West bus others. Rivers dollowed towards the East, and in the first place, Peifs, Pethorihotist, Jenefeld, and Peifide. Therefore, the pallage must be pen from the River Obii, to Reifida an The Histories of the Ruffes report, that when. the Mifeovites and the Tingelt more, curious to fearch our Countries farther toward the Balt, they lent out discoveries over Land, who paffed beyond the River Obii and Jenefeia to far as Peifida our foot il and shere they fell amongst prople, that in their habit, manners, and freeth

were fart different from them. There they heard the found of Bells From the Bells the middle Belts the hisy to be Men, the neighbory of Tibes. they take the fart for the Belts the fart to be as the fart and May, abounding with all takes of flowers. The Dike of Men and May, abounding with all takes of flowers. The Dike of Men and the first wards, and trial was made, but the Dike of Men and this house left he was thinked but the Dike of Men and this house left he was thinked the flowers and this house the first wards and the first wards and the parties of the first wards and the parties of the first wards and the first wards who have a dry with noth a wight of creaks every where. And though there be fuch a wonderfull force of warsts in the Sea, yes certain it is there be flich a wonderfull force of waters in the Sea. yescertain it is that it is fontimes rozen. Wirabo. I. c. Geograph's writes that in the mouth of Maory, fo great Ice, was feen, that in the place that King Mithridate? General? Overchare the light of the lame he passed over with his Pleet. Which can love the lame he rour, the Sea of Pathia was to trook love the lame hard as a stone, and was above 30 Cubits think.

But Olam, 1. 11. c. 25. Saith that infine North Sea 2 the light was and draw along their Engins for Waters. But Value are the lame hard as a fone, and was above 30 Cubits think the lame has and draw along their Engins for Waters. But Value are the lame has a fone of the lee those, is very grant and carried on the lee those, is very grant of the lame has a lame to the lee those, is very grant of the lame has a lame to the lame has a lame had been along their Engins for Waters. ctured with red variets, yet it is not of that numers, as use for our rewater is rainted by the mores that are lieur, and all the land about its red, and next to the colour of blood; which is a colour of blood; which is a colour of the second of blood; which is a colour of the second of the seco when the South wind blows, the sea is blewith and welvith, but when the North blows, it is blacker and darker, or When the Do

days are, it is troublefome. Men afcribe that to the Sun, that piere

ellithe inward parts of the sea with health Joand thirrsultogrofice parts, but confumes them not. But this is frange that is faid that the Year Word, 13 fo in taingled with to many green herbs; that Men cainor fail in this long pranetics of herbs; like new hindring them. That year is follike a Medow, that as the Waves thin all the herbs turn with it also that the torms are left from the Waves that from the graffe. This indangers sea Men Janu first Columbus Overant 12 22 Por the sings are held by the bendings of little branches, that they cannot turn a Tris deep enough for Calles to row in , but the neith tile from the bettom, and grow together on the top, and are is hand breadth higher forietimes. Fliny, 4, 171 reports that in the red sea. Woods flourith y chieff the land the Olive, bearing Olives, and If it vain, Mullight, thich, which the sulf firmes, are converted into a Pinner. House, The prouts themselves, are 3, cubits great, and are flored with about dance of dog fifth, that it is fratte lafe to look quit of the Ships and they Will let upon the very oars off times. The Souldiers of Alexander that Tailed from India, reported that the boughs of Trees in the Saltwerk green burtaken out of the Sea, were presently thanged by the Sun fille dry falt. Also polition teports, that in the get of portingal, Oakes graw that the thirm affice freding on their Acorns from files with the files of the

Bullitunt Arice Ariof the Salinelle of the Sea. Der ne sand ton

He Works of God are Wonderfull in Nature, but two are most wonderfull, the falther of the Sca, and its howing and obbing.
Winderfull, the falther of the Sca, and its howing and obbing.
If faid, that there is an illiand in the Southern Ocean, that is wanted by a twice sea, which also Diodoras Siculas feems to telline and affect concerning the Scibian Sca, Pling 1, 6, 6.17. But that is a cribed to the Silver tunning of Rivers into it; and how small is this in respect to the Silver Sea. Tet Philosophers argue concerning the falt-

nelle of the Sea.

Arifforle 1. 3. Arter of the calls for the nature of the Sea, and

Arifforle 1. 3. Arter of the Sea-waters by the mixture efficacy of the Sun to affift him. For the Sea-waters by the mixture of the ground and the thores is thicker, and the Sun by its heat calls forth thinner parts, and exploives them into vapours; which being burnt with heat and mingled with the water, cause its salingse. Mans body will help us in this, wherein the native hear distolves the sweetest meats this the saltest humours; which being collected in the Reins; is call forth by wrine. Experience confirms its than flows us that the Scalls more last in Summer than in Winter, and more toward the Ball and South than ellewhere. Dalas likes not this oplnion, but brings another; That Youth may more exactly comprehend the leng of this brave man. We will let it down here in a few Propositions.

1. The Vehement heat of the Sun doth not boyl the Sea to be fall. For, i VVhy is not the same done in a little water in a baion? aliw Asidul Bits nogu Arow, bluodigitonila leadura aind office lefte reinfrace? Have the new interior of the sentiment, fisher Hit A Hot dry caribly tabalation carried by rainiento the fiers in that the Calle of fis fall wells. For an Why is now the dame done in Pourse in the 2. It is too little 34 Averis it not enally fall in the superficies but

in the deep. For though scalings, exercises 1. denyes abats leving! that the Clowators have proved it topho fundt, yet Reviete faith it was found orderwise in the harmon conting worn twee and Egypt, when in was very talm : Philip more remainment the lame. This more our

III. The sea is fall by the missing of formething with it, it That is exert because all tasking is or mixt pading the light and an arriver of below the street of The which is mingled with the Sas, bath the natural sight and gir cabilifiers That is apparent to Becauld the hearts flight Bords will hardly extinguish themes, and it is cally hallament was subst that ato walled in it are quickly deved. 34 h he while stande us britance and France hottor. 168 Mare than salune of our contents long a minor stock his state The fate and bitter nefle of the Sea it from a Subterrange bitual five to Biramon is pereceived to bitter in talleuthat it may be known to be the fifth his parof it. Birumen hath great force to saille to falt and bitter talte. The bituminous Lake of Paleftina is lo dals and bitter, that no Fifth is bred in it; stit scours cloathe it one wet them.

and thake it well out. ... Pliny reports that a blumpinous water ber is alfo falt at Bakylon; is cast out of their Wells into falt Pita, and is chickned partly into Bimmen partly into Salt. where it notify into WII. A fale Exhalation proceeding remains a Deaps desoily disting to the body of the Sea. For as fine flower of the seal for as fine flower of the seal for as fine flower of the seal for the place that boy is unto other particular. on one fide to the other, if in the middle to the circumferences with biruminous Exhalation from thence where it boyleth most suggistions is most hor, is cast and dispell'd into the whole body of its possible for Artic. 5. Of the Ebbing and Flowing of the 14. On the Suit

Norher great miracle of Nature is the Ebbing and Florida at the sea, When the Philosopher sought for the cause of the motion. The diurnall, monethly, and yearly, The first is when the Moon is rifen above the Horizon bur one fign of the Localecti or is gone down under the Horizon; then the Sea (wells until the Moon comes to the midft of the Heaven, witchove or beneath the lierth When it declines from therees the sea begins to retire until the Moon is but one fign diftant from the Hall of West, and then it stoppe with affeits thus far to him, that the flowing of the Sea begins about the equinoctiall hours after the rifing or ferting of the Moon, and ends full to long before its ferring on riling. He descriptes the other so !

monethy, inche confunction, when heldich.) That the greatest and quickeft recurnings of the Bea do happen about the new and till Moon's the meany about the Quarters of the Muon of And Marrianers approve this, when they call it they kinds fest, by seaton of the grate abbing and flowings, in the new and the Moonsy but the dead Beautife walf Moone; because of the luller and slower motions of it, wollidonian addes more; That only sittle outs blifer ved a Sea ; withat swauseried from the red Seav and was different from injoingt kept the mondelily courfelof returning hamely according to the Lunar moneth, which men call periodically Rot he had oblerved in the Woon being in the Equinodially light the Tides were equal but in the foldiers they were unequal both for quantity and i writing. and the sand menualicy held in the reft, forermeany of them the-(Regod hear to the threll id places. of Laftly, Politidonia laitha Than Do Mennete the yearly motions from the Mariners of Dudgw Her they Tay, that about the fummer Soldice, the cobing and flowing officie lete levelaleth much; and that he conjectured the lame did dignipish the far as the Equinoctial; and again to increase popull XV incert from attende to decrease untill the fpring Equinox wand to increase main uneilland Sammer folkicel splin determines the son translating tellion of the Equinox. But Patricly wirnellesh, That we proposed in 18, muary great part of the Arandware naked, and contlave dry for Jone Mayer Town to famo pliny hat a 97: oblarvess The compressight Bedry in the Moons roo circum volution, the Fidespare called hack to their firth motions, and like increasings, that is to lay, the Sun and Moon then returning to a conjunction in the lame light and degree, Wherein they were let conjugation eight years before, to But for the Tides here les affertate among t Writers. In the Sicilian Sen the billigs and flowings are twice a day, and twice in the night. Entire an elle winds of Deleum repeats its motion 7. times a day, and formetimes is Realth own down from the highest Mountains, and fo Acep el deny that no filpstean be fatt there, Bafilin Heraemenous In England at Briffoff the Ebb is daily twice, and fo great, than the

Thips that were in the Sea, fland dey; and are twice on dry Land, twice in the Sea. 1911 00 bir princas hangillemis, as Pling tofifices, 1. 2. 6.67. writes, that it Wells fourfeore cubles higher than Britainy. In the Southern part of the New World, the Scarbing, flowes two Lengues, Quetan Jumin. Logi But in a certain Northern Sea there is no flowing or cobing volerved by the waves of it, Petrus Hilpan. pls. ci ting Not far from truba Promonibry and by the thores of Margaret Illand, and Paria, the Searflowes hadurally so nor tan thips by any means, though they have a profesous gales faylagamit the floods; nor make a mile in a with the day! period marigifien fam India that the Indicatick Sea formerly there was wont to be a tely great flowing forth; early in the morning, the Sea being Caddvanoed the Continent, that inwent with the as a firing man could run in a days Procopil. 1. Belle gothicis But fingular was first Tide, and a wonder of the World which Alexander

A. 160 . SO.

alexander laws Johannes Huga Healthoftus incaks, of in in his works a direction wand, Calvacus Ballyman his padagating Sarianii Alayyhan pe journeyed from the last on Mark of Still homes into the Kingdoms of Pagua : which is to angle pryant danger, paring foutneyed ten dayes the barrie to a place named Assessor, Cipr louise, calls and and it is the mouth of that Indiana Rivers which Alexander languages is alm she fame Book, those Engances are called any over Syrarity bich is a sea-Potriution the thore where of are an woodien days, which the Soc Howes by, and when it ebbath leaves them all bases which is one of the Breaten would sat the Yvarid, handles of the bases to admiration, and decreated to the saturus wells think the politics that project to Marayana Lista frontier of their Chaut in the lame country, the again orals collection and object when the water increases h, tup swifter than an Authority of all and that to long as the Apod this into the Land & when the god backsahele are lett on the groundsthe flood is higher an Arcange cont any Hrees, Tite Intos lote to the Sea - are carried backwards with their frems lookille into the Scary It comes in with a mighty double the Illand They have that is in the south, what far from the creamenter two first high hill literate descriptions and the figure was a line of the first the south of the south to the caule, and consider whenever course this flowing of the Seed. The vulgar opinionis that the caule proceeds from the seed of bearing his seed that the caule proceeds from the seed of the seed beames and garryes them with Mantothe Sag waters, can the brames do affect the water of the Sala with a tipular warmth and that warmth by rarctachion fills the sala with a tipular of prices with the Reckerman de navigation. Labavim, lib. 5 da and 3 females. but that the Sun may affift formwhat, as also the Moon that the Planet, yet in these, faith the games consist the arm preparated cause, nor the only cause, but have no pure helps and causes whereby the figural causes are before the sea bad that power before those states are recently before the sea bad that power before those sea bad that power before those sea that helps lanetwore Created, for the waters obling and howing a surring than then to be for figns, and for times, for days, and for the same they should thing in the Firmanian of Heaven. Mond dillinguilly darknesse and light, and govern dayes and nights the second feet forth a four fold Howing of the Sea. The first from Bast to West, by the subjects thore, and in Baffboxus and Hellespont where Pontus passable suitily by the mores of Thracia and Alia which Tide rather tollows the moston of the primum module, then of the Sun on Maon and as allo the Ayr it tolks which is especially noted tiller the light where the flux with a Ayr with the sea Vapours and exhaustions can lether the vinds sales. call Briles; and opposite to their sare make the play without the Tropicks called Kalavales. The other proceed from fuch Montgress abide inunc seas chiefly from whales s. The third is af Ewign places Alexander

Of the Cast but 1880 of the

Plate and in the face make the world the factories of Gen. Visit 19900 to be called the charge of the state of the Wil The Moon with the Sun being in outstat podes can Fault the flantes of the waters in our scaes extract the water in the granted chin body. Denis rifes of the Moone Confestion was the confestion of the confestion Vo se gen do more much allahlar massel fire ou milhiburning mund whiching fungofe to bein Gulphelin Por in interfaleth and both best thouse while the state Special find the property of the second state of the second state of the second upon rite and the which hey are more direct when the stall desired in oulary sham when they fall obliquely. It is apparentee bay the call charified source win both homispheres. It. Because the force with believe stalled with item than lighter the trops one participation which the by the Diameter of the lasth pencinated : as in County by death light a long trained though thought take hite affine nature of Bithing and being to the enflament beyond beine; for Maptha not yet fixed, stable fines of all head the hands of the Stable personal between the full lamber of the stable personal between all being fittion of all Believes at the water and constant after bity mines by the stable personal between the bity mines by the stable waters attem as family fines, and the between the stable part of the stable personal by the stable personal between the stable part of the stable personal between the stable part of the stable personal between the stable he are to he enflamed beyond bollef : for Mapthe not you fixed of the

that comes to passe in the Because the state of the in and the Planets are in the Equiposes, and the state of the both the Equiposes.

2. Because a coronn respectively the Site of the Both the Equiposes. doth increase his vertue storthe Moon, also having an respect to

fome Planets, as to Venue, is faid to cause greater Tides in all I VIII ... Therefore the San facility the meterocopout the deep places of the being filled with a bir aminous funt is a stand but a de very box and to hope is the livelling of its boyling a law attended in the livelling of its boyling a law attended in the livelling of its boyling a law attended in the livelling of its boyling and the livel unto the Mores of the Consinent and large the Mouths of Rivers ... Bus it is not incomforty in her it should be activally hose when as it is far from the place where it boyls, who are his highly you are the place where it boyls, who

1X. The Eubkan Europus dothing flow of times a day at fet tames a tous

in particular, which proceed from whitepoble, by which she waters are flicke up and foued out again by turns: Items very brobable this happens in Charybdie, the Syrtes, and Chalegdis about Edban This rebin leties a true flowing, and comes from winds breaking forcis of the Caves of the Earth, and forcing forward the Waters, for to the Waves running backagain and finking down. Burthe fourth is withe cobing and flowing, which tuns neither Ealtward how Wellward, but be gins from the Naver of the Seas, and that boyls up, and as the water Fifethus, they are powred forth toward the Banks, more or leffe. the taufe is more or leffe violent; unleffe fornething hinder the caufe Whereof we that lecklast of alls And true it is that warrings if the Araights of Magellan, where the South Sea is separated from the North by a notable difference, marking diligently the Tydes of term Sels. have 6B ferved what they could not do in the vast Ocean named with both Seas do not begin to flow at the fame time. And that it is not moved by any outward cause, not from the Heavens, not is it brought in from the Balliot Well; but comes from the bottom of its and boyles out from thence the superflusty running toward the Land variously as the Welling is great or fmail; the Moreshigh oldow, and the chuffe that Moves it from the porton upwards, weaker of the one the Timis collititied by the nature of the water, which calls up from the bottom Whatfollyer it fucks in, if it be not too heavy. Hence reomes to palle that all Seas purge themselves in the full of the Moon. I Not that the attraction of the Moon is the cause of it, but because the wind that was in the interim collected in the hollow places under ground of frives to Hyaffwards, or haing heaped up about the putrefactions of the Sea. breaks forth is padiage de byle sameium y attributes it to Subterrailed That you may know the grounds of his opinion, I will fer it down in a few Propositions.

111 The flowing of the Seats not because of the Moon, by the nearnelle of the trebt and off that efpecially which the borrowes, which breeds exhalations, whereby the waters swell and me oters in For in the fult Moon her lightis thwart the carsh, and yet there is a tide great enough.

I'II. The Sun and Moon do not by their branks aufe the flowing of the Sea. 1. When it flowes in one hemisphear, and both the Luminaries are in the other, what is the cause of that? Bor it hath not equal forces in both. 2. If Suir and Moon cause the flowing of the Scar where? fore ellewhere in the very Ocean, and that berwein the torrid Zone, where their power is extream, are there no Tides at all, or very small

VIII. When we enquire concerning the flowing of the Sea, we must suppose ! I That there is a monderfull plents of water in the besome of the Earlh. 2. That water which is in the bosome of the Earth's not onely continued to it felf, but to this we fees in the Sads and is joyned withit by the channels or open chaps of the Earth First it is probable from hence that lt is a part of the lame body? Then, the deeps of the Sea, that were never yet certainly known, are a token of it. 3. when two most waste Continents, on this side Asia Africa Europe; on that America, devide sincerearnly like a windythe Sea being turned functimes with ways former infer This is a forene tream tent your a feet mountain, which in falls down from athire our halfer my house the thought the states and my entities proceedings yd xogodyy selathan is walkalon book Holes worther exhalation is did tived more early switch sund last her than the vide is moved as we fee in flesh boyled in liquory the kunt he been sell and the boil IV. The State of the Marie of the Handles can conferme Handles Drikt VThe Sele conderin hathmore force than when treoes out. Tristof fing of the Sca, Smale compares to Expiration, and Respitation, built Approve like with emilier of the Heart and Areerics by the Dianole Hadyorde container athus in the trade of the outland will entry lall obliquely. It is apparently the bidge consider the found of the second of the seco Caronie luppole, that what bever is feen beyone the extra line of the life over the li formed by the the total who the the the the transfer the control of the transfer th Americh ambrigger the cophers have Mentapiden in the property of the cophers have been been been been been been that the copy of the beautiful that he was a final another sun. Yet others hide that the man that the country of the copy The course and the that County and a prediction in Mental Well thought of the course of the county of the course o as Ste chero, World the the the work of the their pole is oppos fite to will. Melucan them animathy, wifhe thould thy, A Land against ours. And in Plato Finans there is mention made of the Island Astances, which he affirms to be greater than Mand Africa.

These are his words? Il is recorded, With the cref of Amen's relifted formerly an infinite compa-

my of Ehemies which tame from the Atlantick Sea, and possessed almost all Eutope and Affa. For the was that parrol Sea Navigable, having in the Mouth, and as it were the Entrance into it an Mand which they call Hets cules villar, and it is reported, that that Mand was greater then Africa

and Asia, by which the passage was open to other neighbouring Islands, and from the Island to all the continent which was in light, and neare to the Oceans but in the mouth of it there was said to be a Haven with a narrow entrance. Gre: After this, by a wonderfull Earth-quake; and a continual inundation for a day and a night, it came to palle that the Earth clave afunder; and . (wallowed all those warlike people, and the Island of Atlantis was drewn's ed in the deep ? want the fague to a many word from way that we also it

- But Aristotle, lib. de admirand, c. 8. relates, that in the Sea beyond Heredl's Pillars; an Island was found our by the Carthagenians; Which had Woods and Rivers fit for Thipping, but it was diffant many days Voyage. But when more Carthagenians, allured by the happinesse of the place, came and their amongst the Inhabitants, they were condemned to death; by the Commanders; he adds, by those that layly ed thither. Let us also hear Seneca, lib. 7. quaff: 6.131. The people that hall come after su, shall know many things we know not's many things are referred for after ages, when we are dead and forgotten. The world is but a very small matter, unlesse every age may have something to search for. And again, quaft. 5.c. ult; whence do I know y whether there may not be some Commander of a great Nation's now not known, that may fivell with Fortun's favours, and not contain his forces within his own bounds ? whether he may not provide hips to attempt places unknown? How do I know whether this or that wind may bring warr; Some suppose Augustus extended his Empire so far. Marianu Siculus is the Authour, that there was found in the new World, old Golden Money with the Image of Augustus and that it was fent to Rome to the Pope in token of fidelity, by Johannes Ruffin, Bishop of Confentia. That is more wonderfull, that the spanis ards write; that there is a Town in the Province of chilis in the Valley called Cauten, which they name Imperiola, for this cause . Beyause in many Houses, and Gates, they found the Spread Hagle, as we see now a dayes in the Arms of the Roman Bmpire. MAnimianus; 1919: observes somthing not unlike it, that in the obelifeks of the Beybrans there were ingraven many Pictures of Birds and Beafts, all of the other World. What shall we fay to these things in We say they knew them, but scarse ever travelled thither. W Bur if those relations are true that Plato reports, of which Tertullian alfo fpeaks, Apolo, c. 29. and Marcellinus, 1. 17. we add farther That the prediction of Seneca founds rather of the British Islands in favour of claudids. That is falle which is faid of Augustus, We have all the Acts of this Noble Prince; if there be any thing buried in filence; it is some mean matter; But Novelty casily gains the name of Antiquity, if there be fraud in him that forgeth it.

Chaptial?)

Artic. 2. Of the miracles of some Countrys.

Pliny relates, and we out of him. There is a famous Temple at Paphos dedicated to Venus, into a Court whereof it never rayns, Pliny, 1. 2. c. 96. By Harpafa a Town of Asia, there Rands a hard Rock, which you may move with one finger, but thrust it with your whole body, and you cannot ftirr it. There is Earth' in the City Parasinum, within the Peninsula of Tauri, that cures all wounds. In the Country Ardanum, Corn that is fowed will never grow. At the Altars of Martia in Veii, and at Tusculanum, and in the Wood Ciminis there are places, where things fastened into the Earth cannot be drawn forth. Pliny, 1. 2. c. 94. In Crustuminum, Hay that grows there is hurtfull, but out of that place it becomes good. Some Barths tremble at the entrance, as in the Country of the Gabii nor far from Rome, about a 100 Acres, when men ride upon it; and likewise at Reate. In the Hills of Puteoli the dust is opposed against the Sea Waves, and being once funk, it becomes one stone that the waters cannot ftirr, and daily grows ftronger; alfolif it be mingled with the Cament of Cuma. Plin. 1. 35. c. 13. Such is the nature of that Earth, that cut it of what bignesse you please, and sink it into the Sea, it is drawn forth a stone. In a Fountain of Gnidium that is sweet; in eight Months time the Earth turns to a stone. From Oropus, as far as Aus lis, whatfoever earth is dipped in the Sea, it becomes a stone.

Tilling of the ground was of old, of great efteem amongs the Ramans, they found one sowing, and gave him honours, whence is the surname Serranus. As Cincinnatus was ploughing his four Acres in the Vatican, which are called Quintus his Meadons, Viator offered him the Dictator ship, and, as it is reported, that he was naked, and his whole body full of dust; To whom Viator said. Put on thy Cloths, that I may deliver to thee, the commands of the Senate and people of Rome: Whence, Pliny, l. 18.c. 3. answers to this question, Whence was it then they had so great plenty? The Rulers at that time tilled their grounds with their own hands (as it is fit to believe). The Earth enjoying a plow Crownd with Laurel, and a Visiorious plowman: whether it were thus they managed their corn with the same care they did their wars; and disposed of their fields with the same diligence they did their Camps; or because by the ness labour, all things prosper better, because they are don more carefully.

CHAP.

A chiral of HI Kenn A. H. Day Ching

restanting to book a in malfishe Mande, in the publishment of min web Antic. A. Of the Original and deliversion of Illands Tolands are parts of the Earth, companied about with the sea. They Thave many causes of their beginnings a Some same forth of the Sea Lome were broke off from the continent; tomb were madeby matters heaped together. One was made in the Eggensica, willie Severa beholdie: Severas quella la Gare 21 ... Headels that another came forth of the Sea in his Forefashers, dayes; 30 The Sea claim he) formed continually, and a smoke ascended from the deep star as lest it did difelosea fire not continual, but thinning by times as light suppl do si as aft as the heat of that was under, had yauquified the weight that lay aron: Aplength flongs were rolled togethere and Rockingsti ly untouched, which the vapour had driven forth before they micho transformed and partly correded and turned to be as light as a pumpx-Rone a lath of all appeared the sop of a burnt Mountail and Anthon li 6: 1. Geograph. writes, that between Abora and Theralia ac dames first brake forth of the Seafor four days together, as if the sea burnes then by little and little came forth an illand that was twelve suplories wide, and it was all made of fire-flores. Attaining a Gity of Morito that was fall and couriguous to it, was out off by a ludden woldhar of the Sea, and was made an Island by in [c]t. One was ded to the der Leethe Emperour, an old Hillorian (Fangrand)? (c 44) the faid, that at Confantinople, and Bithypia, there was the behind and confantinople). Rain, that in the Lake Beaut, which is mor far from Nigomedianity the frequent filthy matter cast into it addlands were midde thusbage she Island Tyberina. For Lucretia being wiolated by Tarquin; with Bruim had given counfel to plunder the Kings goods, and to call them into Tyber, an Island was made. I. So Liw, I. A. H. Hoff, A. Picherte form flanding Corn was then of wheat or Horley, that maderical for the handleft a mbirth suit of the field, because it was unlawfull to deliver they are the down with the firm by the help of many men searing succession and personal ent of baskets into Tikuns when it retilent limby as at its committee do in the no masther, and so the heaps of Corp remained in the founds, wrappoyed with and, whence by degrees, and by other things date in by accidents an Island was made. Allo some Islands have coased to be as Play faiths 16, 2, c, 89. Antiffa first an Island was joyned to Lefbos, Zenligranto Halicarna Sus, Ethufa to Myndus, Narthecufa to Parthenius Promontory. Hybanda was once an Island of Ionia, now it is 200 furlongs from the Ecan Ephelinhath Syrien in the Meditarranean. government of to ano wife Continue live no Orie thing one nathers in this live in the live one and the life tante Hland Core is not challed in the Chemical Collection of the Capture of the that it what call forth the next night, bodies burned in the day.

Artic 2. Of the Miracles of Some Islands.

S Nature hath given Islands, fo she hath bestowed on some; fin-A hand in a certain Lake, about the entring of Nilm, that hath Groves, Woods, and great buildings upon it, yet they flote, and it is driven every way with the wind, Mela, l. x. c. 5. In the Lake Vadimonis, and Cutilia, there is a dark Wood, that is never feen a night and a day in the same place, Plin. 1. 2. c. 95. Of the latter Macrobins Speaks; l. 1. Satur. c. 7. The Pela-Bi found an Island in the Lake Curilia, for there are large feilds for graffe, whether it were a continent, or the mud of the Lake, it is handfumly trimmed up, and fitly joyned with twigs and Trees like a vafte wood, and floats every way with the Sea floods, that from hence we may credit the relation of Delus, which hath high Mountaines and large Champion ground, yet floats on the Sea. The Calamine so called, in Lydia, are not only driven by the winds, but by long poles, whither one please, and many Citizens escaped by that means in Mithridates Warr, Plin: 1.2. c. 95.

In the great Lake Tarquiniense in Italy, there are two that carry woods, sometimes they are of a three square figure, sometimes round in compasse, when the winds drive them, but they are never four square. In Garumna a River in Spain, the Island Acros is pendulous, and lifted up with the waters increasing, Mela 1. 3. c. x. Also in Nympheum there are finall ones called Saltuares, because in finging of a confort they move at the strokes of the musicall paces: Besides these, in the Fortunate, Fennel gigant growes as big as a Tree, Solin.c. 5 8. In Madera, grapes hang down upon four branche; the skins fill'd with juice, want a kernel, they are ready to gather in March. Cadamustas, when Columbus sound out the Island Hispaniola, he mowed Wheat on the 30 of March, that was fowen in the beginning of February; In this short time the ears grew so great, that they were as long and a big as a mans Arm: Each of them contain'd 2000 grains, Peter Martyr in Sum. India. There are fresh Melons every quarter of the year Ovetan, Sum. c. 81. Historiar. l. 11. c.1. fo great, that one man can hardly carry one upon his shoulders. Grasse mowed will in five dayes grow a cubit high again. Tyles, two Islands in the Persian Gulph, the Land of them exceeds all other places for this rarity, that no Tree that growes there ever wants leaves, Solin 6. 53. In the Island Ormatium no living creature is found, nor any Countain-water; Manna falls down with the night dew, Polus 1.3. c.4. Dogs will not come into Sigaron an Island of Arabia Felix; put them there, and they die running mad, Plin, 1. 6. c. 28. In Ithaca, Hares brought thither from other places cannot live, Aristot, histor, Animal, 1. 8. c. 28. Ellis fus, one of the Haleares, hath no Scrpents at all, Plin 1. 10. c. 29. In Creta there lives no Owl; bring one thither, it will die: and in the same Island there is no mischievous living Creature besides the Spider Philangium. Cyprus in former times was so impatient of graves, that it would cast forth the next night, bodies buried in the day. Ericu

Ericus the first Danish King was brought dead to Jerusalem by the winds, who was intended for the fame place, Saxo Gram. 1. 12. In the Island Cephalonia there is a River that bath on one fide an infinite multitude of Graffioppers, but none on the other fide, Ariftot, biftor. Animal, 1,8, 0,28, In Cumana an Island of the New World, the Cobwebs of Spiders are knit fo fast, that they cannot be broken. Hispan, p. 5. c. 15. Iron that is dug up in Ilva, cannot be melted there, Bertin in descript. Hve. To conclude this, in the Arm of the Sea, by Fortha, there is the Island Magotia; In this Birds build like Wild-Geefe, in such great multitudes, that the 100 Garrison Souldiers that defend the Fort Bastis, feed on no other mear than frests fish, brought in hourly by these birds ; nor do they use any other wood but the flicks to make fires, which the birds bring to build their Nefts. Bellovadius; and from him, Thuan, in histor, with the well and

CHAP. IX.

Of Mountains.

Artic. 1. Of the Qualities and Quantities of Mountains.

Ee must suppose the Mountains to have been created at the beginning in part, and part of them have been made since: Onely one Modern Authour in Italy may confirm this. There are many in the World of wonderfull height, and admirable qualities. Olympus and Ather are fo high, that Afhes left on the top of them, a whole year, are neither blown away with winds, nor wathe off with rain: And fuch as fland on the Top of Vefavius, have observed the Clowds that are near to be of equall height with the Mountain, and fome Clowds to appear under them, Kepler, 1.1. Aftrom: p.3.1 Whar Zabarel writes of the Region of the Ayr, c. 8. doth make this good, I went (faith he) up to the top of Ventis bill in Paravintage and there for the whole day I had a most clear Ayr ; but about the middle of the Mountain I faw Clouds, which were between my fight and the Valleys, that I could not fee them ; but in the Evening when I was come down from that Mountain; I found that it had rained a great shower that day at the lower pars of about Mountain, yet it rained not at all on the top of it. Pircolomin. de Meteon. c. 1x. faith, the fame thing happened to him travelling over the Alph and Apenninus. In Seleucia there is a Mountain next to Amiloch from whose top at the fourth Water of the night the Suns body might be feen; and but turning the body about, the beams diffipating darks nesse, there was day, here night to be seen; solinee. 37. The Walk about to the top is 19 miles, and 4. miles upright. In the Country of the New World, some Mountains are above 50 miles high fome are fo high, that you cannot fee the valleys in three days coming down, Martyr in Sum. and Polist. 2. c. 43. In Tenerif, which is like a Pyramid, it is 60 Italian miles high, Cadamuffun. If you regard

the qualities, fome abound with great Lakes, fome yomit out fires. others have other rarities worthy admiration. 337/2 worm of the is

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In Mount Noha of Arabia Pelix, there is a wonderfull Ciftern feen. for collecting of rain waters, which will ferve for 100000 men. At Doffrinum in Sweden they are covered with fuch a maile of Snows even in Summer alfo, that the balls falling from tops of houses, grow so much in the foot of them, that they overthrow the Towns, Olaus 1.3. c, 23. In new spain, there is a smoke that always rifeth out of the topof a certain Mountain, and keeps round like a Globe, as it afrends no winds disperse it, and it moves as swift as an arrow, Cortef. relat. 2. In Helveria near to Lucerna there is a Mountain, and in that is Pilat's Lake; if you cast a stone into it, you raise tempests, and. Pilat is seen there every year, if you will believe it, in the Habit of a Judge, Joachimus Vadianus in Mela. In the Alps of Spain there are Mounrains of Salt onely: Cato Major faith, the more you take from them, fo much more will grow to them, Gellius 1. 2. c.22. In the Province of Cyrene, there is a Rock and Fountain of the Suns; when you touch it with a mans hand, a Fountain rifeth, and it rifeth as ficrcely as the Sea in its fury, Mela I.r.c.4. Lastly, there are two Mountains about the River Indus, the nature of the one is to hold all Iron, the other to refuse it: therefore if there be pails in your shooes, the one Rock holds your feet immoveable; the other drives them off, Pliny 1.2. C. 96.
Artic. 2. Of Mena and Hecla Mountains.

Mitna is a Mountain in Sicilie, hanging over the City Catana, and all the shore there; Pliny, Mela, Ptolomey, Strabe, Solinus mention it. The Inhabitants call it now vulgarly, Monte Gibello. It hath two Caves, whereof the one is narrow and ftraight like a pit putting out Rones every way like two bed fides: the stones are burnt, and of mamy colours, and a stony plain holds it in a narrow circumference. The other is in circumference 24, furlongs, it goes not to the bottom of the fame largeneffe, but the belly of it is fomething narrower inwardly, follows, will in the middle of it, it is hollowed with a fit mouth to cast our what the Mountain affords. Smoke comes alwaies forth of those swo holes; when the Sky is clear, it is most white, like a cloud; the fires are not feen, unleffe fome burning flame rife up, Bembus in dialogo. Cluverius, Sicil. Antiq. 1. 1. c. 8. found flones caft our from thence 69 miles from it, on both fides of the City Catana, by the way men go from Leontini to Taurominium, but especially to Catana it felf, at the faot of the banks by detne, which is the way to Taurominium, where they represent a fad and formidable Speciacle to Travellers, of great and harp Rocks. That noyfe hath been fome-kines to great; that they could hear it as far as to the Hills Gemell's the fparks were for great, that they flew burning to far as Catana, and walted the Jown with fire: fomewhiles there was fuch plenty of Alles deven with the winds, that they fill all places roomiles.

the smoke was so thick, that it so hindred the light, that no man could see in two dayes. At sundry times the burning of this Mountain hath been after a diverse manner. Anno, 1329, on the Ides of Julys about Sun set, from the bottom of the Mountain; suddenly a great Mouths and a little after, two more were opened in the fame grounds with that force, that out of four Caves not far alunder one from the other, an infinite quantity of great flones were cast forth at once; and lifted up the low Valleys, and Forrests, and Woods, to the height of Mountaines; For a mighty River ran our of these four Gulphi, like mettals melting in the Furnace, burning not only the Land, it lighted upon, Trees, stones, bur also consuming them; the ground it self that men before went upon, was on fire, and was fehr and dispersed far and wide as foam of the Soa that beats against Rocks.

But after that this Torrent of fire had paffed through many paffages of the Mountain, it divided it felf at last into three Channells, two of them ran Eastward for many days, the third ran toward catana's which before it entred the borders of it, the vail of St. Agatha A Sacerdotibus being cast before it, by the walls of the City, did extinguish it; while these things were done in the lower part of the Mounsain, the rage was no leffe on the top of it; whence there role fuch a shour of Ashes in the Country of Catana, that Fields and Mountaines were hid by it. And the North wind then blowing, plenty of them with a brimftony smell were brought as far as the Island of Malta, which is a 160 miles distant from the Hole. Amongst the greatest Torrents, that is reckoned, which hapned a little before our days, (they are the words of Bembus in his dialogue of Atna) that ran as far as Catana, and wasted great part of the City by sire, and that Haven, of which Virgil writes,

> And that great Harbour where no wind could blow, Near thundring Atna lyes some thing below.

The torreits of Aina have so filled up the Haven now, that you would fay VIRGIL committed an errour to speak of a great Harbour where is none to be feen almost. Anno, 1537. on the Calends of May, all Sicily for 12 dayes together began to thunder, like Canon fhort off frequently. The noise was heard not only at Catana and neighbouring places, but at Palermo, Lylibeum, Sacca, Agrigentum, and allmost in the whole Island, whereby a little Earthquak arose that shook the houses. When these hideous sounds increased, on the third of the Ides of May, unufuall Caves were opened in Atna, out of which so great a quantity of siery matter was cast forth, that in four dayes it went 15, miles, and burnt down all things it mer with, and run as farr as the Monastery of St. Nicolas, de. Arenis where, (leaving the Monastery untouched) it invaded Nivolafum, and Monpelavium two Towns, and allmost destroy'd them. The upper hole of the Mountain, shortly after for three dayes cast out so much black ashes, that as far as Confentia in Calabria, the Towns were filled

tro Mundi.

filled with after, and they were fo feattered by the winds upon the Seas, that for 300 miles distant from Sicily, the ships were fowled by the after afterwards Atna began to rore mightily, and as it did rore the upper top of it was broken off, and swallowed in the Cave. Though the fire of Aetna be so terrible, yet the land there is so fruitfull that what Pliny speaks of Campania, 1. 3. 6. 6. we may say the same of the neighbouring parts, From this border begin the hiks that beare grapes, the juyce whereof is famous in all lands, and the great contell between Bacchus, noble for drunkennesse (as the Antients faid) and Ceres. In that wooddy Country there are spacious places, (saith Fazellus, rer, sie, dec. 1, L. 2, c, 4.) that are very fruitfull for Corn, and there is so good pasture for Cattle, that unleffe you let them often blood in their ears, they are in danger by plethory moreover the fluent matter that is cast forth of Atna by this fire, growes so hard, that for a good depth it changeth the furface of the ground into a stone, and when they would come ar the ground they must cut the stones. For the stone being melted in the Holes or Caves, and cast forth, the humour that swims on the top, is black mire running down from the Mountain, and when it growes together, it becomes as hard as a Milstone, holding the same colour, it had when it ran, and after are made of the burnt stones. as of hurnt Wood, now as Rue is nourified with Wood-affics, fo it is credible that the Vines flourish by the ashes of . Etna. And thus far for Aina. Heclais a Mountain in Islandia, not farr from the Sea, fortimes it casts forth slame, fortimes siery water, after that black athes and Pumex stones in such abundance, that it darkneth the Sun, yet foratimes the Mountain is wonderfull quiet, especially when the West wind blows An. 1553. the 19, of November, about midnight a flame appeared in the Sea by Hecla, that lightned the whole Island. An hour after, the Island shaked, then there followed a terrible noise, that if all the Guns for Warr were shot off, they were nothing to this rerrible noise. Dithnarus Bleskenius writes thus, We had thought the frame of the World would now be diffolved, and that the last day was come (Camer Horar, fubeif, cent. 3.c. 17.). Itwas found afterwards that the Sea was gone back from that place two miles, & it was allleft dry. An. x 580, it vomited out fire with such a noise, that for 80 miles men thought the great Guns were discharged. The common people think

The End of the Second Classis.

the fouls of the damned are there tormented. Georgius Bruno in thea-

Naturall V V onders. The transfer of the control of the manufacture of the matter of the second of the

The Third Classis, or and then a down The first of the second production of the second of the se

Wherein are the Wonders of hthe Vinding of the Meteors. Labeling of the many of the Meteors. Labeling of the orange of the many of the man nelle, when the winds blow man a last hange the last real research of the

If it then ? Is it better think you to perish by distontent of Mind, or by Thunder ? Therefore rise stronger against the threatenings of Heaten ; and when the world is all on fire Think that shouthaft nothing to lose in so great a Masse, Senevas qualtinatur. 1.20 cis great de la rice

Of Subterraneous Exhalations.

Eteors are made of Exhalations, the Sun and the rest of the Stars draw them forth; and the subterraneall fire is the worker of very many of them. Mye thall fpeak mothing of them. of Thefe are some hurtfull, some safer as may be proved by many Examples. At the foot of the Mountain Tritulum Halvestum, there are waters you mult afcoud by 43 degrees to a place of Iwearing, It is in length thise ares the more you descend into thems, the cooler. The house will got from the parts, and cure diffillations from the head. There is a hot Bath near the hor waters that run foffth of the Lake Agnanums . The ditches are covered with Turves of graffe, and hones being removed, a hor vapour is fent out, that makes them tweat that itseedye is his Que of Avernus a Lake of Gampania, before Agrippa had cut down the Myoods that covered it, and laid it open, the Exhalutions, weten of thick that came forth, that the birds, were killed that flew over it. At the Lake of Agnanum in Italy, there is a Mountain, in which there is a marrow Cave, is declines moderately downwards, being 8 foot long, if you coucly the earth of it with your foot or hand, it feels hortes, than

Chap. 2.

the reft, it chooks any living creature that is call inchy the venomous Blaff, deprives them of fenfe and motion, though you pull it out prefently; but cast the same presently into the next Lake, it is a wonder how it resteres their life again, Camer Cent. 7. Mirab mem. 50. In the MandEbufus, Exhalations do foinfece the ground, that if they fall upon places who reservedes are the pellilent Creatures carnot endure them. In the great places of refreshment at Baianum there is a ditch the water whereof fends forth fuch hor vapours, that wax Candles will melt, & be put one by them; and they are so pernicious, that men fall down dead therewith. In Rabylon there is a Cavealfo, our of which rifeth fuch a pestilent vapour, that it kills all that draw it in. Also Platomino in a little hill of a Mountainous Country hath so moderate a month, that it can receive but one Man, but it is wonderfull deep ? It is compassed about with square pales, and that so many as would compaffe in halfan Acre, which are fo full of clowdyshick darknesse, that the ground can hardly be seen. The Ayr hurts not those who come to the outfide of the pales, as being clear from that darks neffe, when the winds blow not; If a living Creature goes in, he dies immediately. Bills brought in fall down, and are drawn forth dead. Laffly, as Hieropolis in Syria, as Dio in the Lift of Trajan writes, there is a den of a filthy and deadly finell; what living creature fucks icin, is defroyed by it; Only Engachs are free from the vendm and hurt of it, Scaliger, Exerc. 277. Sell. A.

CHAP. II.

Assid. 2. Of the Nature and Magnitude of Comets.

of Comers hath diverly troubled wife Then's hor yet was any man found that could decide the queftlor. Edine think they are perpetuall, and are chiried about the Sun, like trans and attracts the officiality they lye hid a force think they tire nevely exected, and are not in full mary but heavenly places. gemoliftus thought they were the foules of famous men, who when sivey had been vigorous many Ages in the earth; make their triumphs willen they die nodine confesses his ignorance, yet he to this inclines, And saids, the life they become fixt Stars; The canfe. The Ancients My they all vanished, and thid not fee. Others faid they were of two forest false ones in the Aire; true ones, who forethew'd things to chine from the heavenly place. What ever it be, they are letter things ; and Educated they are in the Heavens, they are to much the harden That which thined, Apporting to possessed more than two Tight in the Mayens ! Mate which appeared Alino 1472) for a whole anonell retrograde from Libra, the through the whole Radinelow its motion,

motion, at first 40 parts, then 120 parts every day, Sennert. 14. Epitom, Cap. 2. Anno 1556. There was one fo great, that not buely the most light and day unpours, but all woods and Groves, be they as many as are in the whole Earth, would not ferve for to feed it two moneths that it Shined. They are Bodin's words, 1.2. Theatr. Anno 1543, it had a very long thyl toward the North, a flame flew from it like a Dragon, it drank up a River, and confumed the fruits of the ground, Sennert. 1. c. When Attalus raigned, there was one fo great, that it was firetched out exceedingly, and was equall to the milky way in the Heavens, Senec. quest natural. 1.7. c. 15. Aristot. 1. Meteorol. c. 7: In the time of Anaxagorus, a huge great one burned 75 dayes; and so great a Tempest of winds followed, that it brake a stone off as great as a Chariot, and the whirlwind carried it aloft, and threw it into the River Again in Thracia, Niceph. 1. 12. c. Again, in the Reign of Theodosius the elder, an unusuall one appeared at midnight, about Lucifer, and a great multitude of Stars were gathered about it, which by their mutual lustre sehr out the greater light; this was resolved into one flame, like to a two edged sword; The same day in July the Spaniards report they faw it; that was fatall to them and to their Ships. Cardanus 1. 4. de varietat. c. 83. faith, it happened either by reason of the purenelle of the Ayr, or the unlonof Light, or by reason of the darknesse of the day.

Artic. 2. Of the Comets lignification.

Hen say, it is a fore-runner of Calamities, if we look upon the Judgment; and it is found so be. It foreshew'd Vespasian's death; Romes Captivity by Alaricus; the miserable end of Mauritim; the destruction of Mahomet; the destructive diminution of the Emperours of Rome; the end of Charles the Great; the Excursion of the Tartars into Silefia, and the cutting off of Lugs. Records fay, that Charles the Great when he faw it, was frighted; and reasoning with Eginhartus, he said it foreshew'd the death of a Prince. And when he, left he should be fad at it, faid, Be not afraid at the figns in the Heavens; Hereplyed, We must fear none but him who created us, and the Stars also: bur we are bound to praise his Clemency, who will vouchfafe to admonish our sluggishnesse with such signs, Alsted.in Chronol. One was held to be fortunate, which appeared to Augustus, when he prepared Plays for his Genitrix Venus. These are his words, Pliny 1. 2. c. 29. The very fame dayes I had my passimes, a hairy Star appeared for seven dayes in the Region of Heaven, which is under the North Star. It rose about the 11th hour of the day, and was clear to be feen in all. Lands; The people believed that that Star fignified, that Cafar's Soul must be received amongst the immortall Gods, upon which account that Ensign was added to the Image of an head, which presently was confecrated by us in the publick Judicature. In the one fide of an old Roman penny, Cafar's Image was to be feen, with thefe Letters, Imp: Cæf: Divi; 111. Vir:R.R.C. on the other side the forepart of Vonus Temple with a Star, and Casar's

Statue in his Robes of Inauguration, and the Altar where he was wont to facrifice, make his Vower and Controverfies, by interpofing an Oath, and thefe Letters were added to it , Divo Jul. Delchamp., add. 2. Plin.

у снар. піт.

Of an Ignis Fasuus, Helena, Caftor and Pollux.

A Ignis Fattus ufeth to be feen about Sepulchies and Gallowies, for it rifeth from a birdlimy fat Exhalation. It is lighted by an Antiperistasis of the ayr in the night, and it is carried here and there with the Ayrs motion. It feems to fly from travellers, coming roward it; and to follow those, that run from it. The Cause is in the Avr. It is driven forward in running, and it drawes them forward; but in flying from it, it followes, and keeps them company: Hence are strangers travelling in so great danger oft times. For they thinking that it is light from Towns, fall into bogs. These 3. following use to appear at Sca. Pliny 1.2, c. 37. faith, That there lights are danacrous, if they come alone, and fink the thips, and burn them if they fall to the bottoms of their Velicls; but two are successful, and figns of a prosperous Voyage; for they by their apploach drive away, fay they, that unhappy and threatning Helena. Wherefore they assign that diety to Castor and Pollux, and call upon them at Sea, making them the tutelar Captains for their Ships. All. 28. 6.114. Cardan, de subtilitat. I. 2. of the Star Helena writes thus; The Star of Helena is almost of the same kind, about the Mast of the Ship, which falling, will mele brazen Vessels, a certain sign of shipwrack. For it appears onely in great Temposts, and cannot be driven into the This but by great force of winds, being a most grosse Exhalacion; and buin alfo; whence it tightlies juminent danger.

CHAP. IV.

Of Ignis Lambens.

Wants Lembens rifeth from a thin and far Exhalation, and cleaves I to the hairs and clothes of living Creatures; and if it be of a horter temperament, it kindles by their fweat. Virgil writes some such thing of Afeanius, 2. Amid.

> Rehold a (hining Creft, was from Julus head Seen to give light, and fo the harmleffe flame Did feel full Jost, and on his Temples fed.

Cardanus, 1. de varietat, 10. c.49. relates to a friend of his, when he came ar one a clock at night, laying down his cloak, as he was wont to do, sparks flew forth behind his Hat; but 15 dayes after, he being accused of Witchcraft, at his friends perswasion went into voluntary banishment. Also when Servius Tullius was a little boy, and was affeep, a flame shined about his head as they saw it in the house: Which wonder, Tanaquit , Wife to Tarquinius Prifeus admired at. and bred up servius born of a servant Maid, as if he had been her son. and he was elevated to bo King, by her, Valer. Max. l. 1. c. 6. Livy 1.33. Also one appeared on the head of L. Martins, Commander of two Armies, as he made an Oration; the ruine of them, weakned P. and Cn. Scipio in Spain. A Boy of Jena pulling off his thirr overthe hinder part of his head, he wiped many sparks off with it, Liban, Lit. deorigin, verum. The Counteffe of Coumanting whilest hor hair was kemb'd in the dark, it feemed to vomit forth fire: we had (faith Scaliger, Exerc: 174. \ a white war-Horfe but of Galabria, he in the dack. when he was curried, feemed to sparkle. They give the cause to be refraction of Light in a polified subject; as in the dewy Ayrs, the drops are as fo many Looking-Glasses, so in a hairy head, fat and clammy, and scaly, are hairs and scales : Also in Insects, some stery matter is faid to appear. In the Island solebe, all the flyes every night feem to Thine fo gallantly, that they represent so many Torches, Libavius I.c. A Worm is found like a Star, that thines like a Star in the night: (May be it is the Sea-Star the Chymilts promise to extract light from the liquor of ir). From the joynts of Tome Worms in Hispaniola Island. al'great light shines forth, and glitters like hoar frost. There are others that will give light 100 paces, and that not from their whole body, but only from their joynts. In Spain, of the New World where is faid to be a Fly like a Beerle for magnitude, with it wings in a theath, called Cocujus, whose Eyes enlighten the night, that it ferves for a wax Candle to give light to those that walk abroad, and for a Lamp in their Chambers to read and write by 3, and that not onely whilest they live, but after they are dead. Some make themselves little ropes of those Candles, and the them to their necks, to give them light as they travel. The cause is not in Ignie Lambens, but it Iyes in the humours of these Creatures, and is done by way of repurcussion, some are thought to have some light shining within them. Truly, Gloworms shut up in your fist, give light if you look through a chink in the darkest night. Reifchius faith, That Fish in their scales comprehend fome fiery parts, and by that they shine. The Dolphin feems to confirm this; for it feems gilded in the nights yet is it blew on the back, green on the fides, white on the belly, Reifchins in Margarit. Philofo. The state of the s

CHAP.

CHAP. V.

Of Lightning, Thunder, and Thunder-tolts.

If Be that would neerly understand the breeding of Thinder must (1) confult with Chymiss, for so oft as a part of Salt-Peter and brim-Ronchaget, there is made a great noise; and we shall say that thundring Gold is carried with a greater force. Also it is well known that if a mixture be made of Niter, Brimstone, Quicklime, and Birumen, that it will kindle by powring on any moisture; and so it is here, for when the brimftony and nitrous Vapours in Summer-time, are carried upwards, by heat of the Sun, especially the Southern wind being quier, they are united and condenfed by the opposite winds, and arckindled by a peculiar antiperistasis; hence comes the found and lightning. Histories write that it hath been heard in a cleare Sky. Sence, natural. 1. 2. cap. 30. Etna fomtimes hath abounded with greatfire, and hath cast out a wonderfull quantity of burning Sand, the day was hid in dust, and sudden night frighted the people. They fay that at that time there were great thunder claps and noises in the Sky, which were made by the concourse of dry things, and not of the Clouds; for it is likely in so clear weather, that there were none. The Thunder-bolt oft times is carried into the Earth, because it is cast forth of the Cloud with great violence, and is made of a fast and well compacted matter, yet Pliny, 1. 2. c. 55. faith, that it never frikes above five foot deep into the Earth. The effects of it are wonderful; vessells of water are drank up, the cover being untouched, and no other token being left : Gold, Braffe, Silver have been melted within, and the bags no ways burnd, nor fo much as the Scal of Wax defaced; Pling, I, 2. c. 5x. Lucius Scipio proved that, by Gold be had in a Cheft of Ofices. Marcia a Queen of the Romens was Thunder-Bricken, when the was great with Child, the had no hurt at all, only the Child was killed. The cause is put in rarity and thicknesse; shar penetrates more easy, this because it penetrates with more diffienlty doth more harm. Ariftotle, 3. Meteorolog.c. 1. The wine fomkitnes flands ftil the veffel being broken, the cause is because the hear of the thunder, thickneth the outward parts of the Wine, that the wine feems to fland, as shut up in a skin; Sennert. 1.4. Epitom. c. 2. but this hardneffe will not laft 3. dayes, Seneca quaft natural. 1, 2. c. 5. That is most admirable which Memerin in Comment Meteorolog, reports that a certain Minister was so suddenly taken away out of the sight of Men, in the way that men passe from Lipsia to Torga, that he was never seen again. Those that shall be presently firiken, are so stupesied, that they neither heare the Thunder, nor the greatest claps of it. That, in the German Warrs, hapned to Severus Master of the Horse, Julian being Emperour. First he was stiffe, and then lither, death being at hand; Pling writes that it will not touch the Bay-Tree, the Sea Calf, the Eagle; Rhodigims adds, the fig-Tree: and faith 11 is by reason

reason of its bitternesse, Rhodig Antig, lett. 1. 3. c. 29. Therefore Tiberius Cafar, as Suctonius faith in his life, fearing thunder, when the Skyes were troubled, wore a Crown of Bays upon his head, and for this reason saith Columella, when a Hen sits they put Bay boughs under her. Therefore they were wont to make the Emperours Tents of Sea Calfs Skins. And Suetonius writes that Augustus was so fearfull of Thunder, and Lightning that he allwaies carried the same with him. Severus the Emperour had a litter made of the fame matter for the same purpose: yet Vicomercatus, ad 3. Meleoror, c. 10. relates that the Bay Tree is formines firicken from Heaven, and Conimbrication fe thinks this freedome it bath to be but imaginary, but only by an ins Rinct of nature, they foreshew Thunder. I need not speak much of the Thunder-bolt, kept in houses, of hearb, and Candles, at the more folemn feasts purged with holy water, and of the ringing of Bells; who fees not but that thefe things are supersticious, Some of them lay, (Remig. 1, 1. damonol, c. 26), that ringing of Bells is uneffectualland uselesse, if any one of them when it is purged, beare, the name of the Priests Concubine. For if that sound do rarify the Ayre, (which yer spoken absolutely is false; for it neither dissipates the Clouds, shar are necestrous, nor doth it fly right upwards, bur in many places it comes forth obliquely by the Windows, not doth it come to the Cloud) it were better that only the great Guns thould be that off, and only the greatest Bells Range Constant observation thews that Dogs, Cats, and Goats are molt obroxious to be Thunder funck Hence it is that if a Dog be by a man in an open field, he will be frighted and lye between his feet, cl. Bortholinu casts the rapie of it upon the Vapours breathing forth of thefe Creatures bodys, which as a known matter and nutriment, the Wapours for thunder follows especially if these Creatures be abroad of that they may be freely stried into the open Ayre; Honcein is that Cats are often Bricken in the chtry, and who knows not that the Dogs and Goats (mell frongs And Cars fend out fuch Plenty of Vapours by their porce that forme men liave fainted at their being present, and the more noble Horses, if they be hid in the Coach, will fweat exceemly, was appearinge reachesh. Thunder feldom liapnoth in the Winter. For but very few or allmost no hor exhalations are listed up, wet curius. 8. de Alers mentioneth that in the time of Alexander. There was faith he all makes someinuall Thunders and old Thunder Lales feemed to fall in divers places when findenly a shore of hayle has powed forth like a Torrens and force of fold sprome this flower thro Ice , wland the circular inka aharahay are mare the hement in Northern Climques, forthbykill Menstandin the Kingdom of Mongall in Tartary they fall mingled with Snow, In Brafile Thunder bolts fall but seldome, but such lightnings that they seem lighter than the Sun; Joseph Ac. fta, Anno, 1560. In the time of Marcus Antoninus the Philosopher, we read that the Enemy was fricken with Thunder at the prayers of the Christian Souldiers, whence the Christian Legion was called the Thundring Legion, presently (faith the Emperour of them in Epift,) as they lay upon their Faces and prayed to a Gud I know not, a cold shower fell upon us; but upon our Enemies; hail mingled with thunder, that we found immediately that the hand of the mighty God assisted us.

CHAP. VI. The state of the s

they are the confidence of the winds. They are the property of

Artic. x. Of the Originally of azinds. is a second of

Riflot. 2. Metcor. c. 4. faith, That the Sun is the cause of the winds, by drawing up the moysture that is upon the surface of the Harri, and by hearing, doth dry the Earth it felf. Dydiat likes northis opinion; For the Earth moyfined being dryed, affords but little matter for winds. For the Barth drinks in no more rain than may quench its thirft; and which it may change into a dry mature; from whence comes no Exhalation of the fame allow ance, much goes to rain, which is no small part of it. What then shall be left for the vall winds? wherefore, inward heat is pleaded for ! And truly, in Winter the Earth fends forth a fmoky exhalation. Inthe Southern parts, Winds arife from Snow; A breath rifeth from Lakes and Randing Pools; and florms from the Sca, though it be calm : whence is this, but that the Earth breathes out vapours, which break forth shrough the depth of waters. The Chymical Inftr ment will flow this, which they use for bellowes, Sennert. 1.4. Epitom. c.3. A Globe is made of Copper, that it may be fill'd with water, and then shut, a pipe with a smallhole is made of one side; the Glob fill dwith water is fer to the fire, and the pipe for bellowes is fer to enother, "As the Globe groves hor, and the water rarifies, the Ayr continually breatlies forth, and ferves for bellows till all the water be confuncd. Winds are then bred, when hear burns the moyst Earth. The Sun by drying openetly the pores, and the Ayr helps by its morion. It it rife from the Sea! the Sea at firf; calm making a muttring noise, fignifics that an oxhalation that is matter for wind, is already then bred in the bowels of it; fonce fiftes fport, fome fatten themselves to rocks: then the Sea swelling a little, shewes that the exhalation newly bred, feeks a passage forth; then when it fails, it shows it is come to the superficies, but in small quantity; clienthe blafts breaking fords with all their force, lift up the waves before them, and cause Winds and Temposts. A hope it upment

Will all for a date to Spains that he forces a to a Thunday a fight to be to the control of the final agreement, the state of the first of the state lighter in a thir many splips is any stanogers or. Takke an isola Mass. cus of the interference is the logical of the contract of the and opening hardy be a million of the speed and below Artists. William Legion of Sollection is undring a great great the Gibert the Franciscan in the stoppy of they bey offer effective the stoppy and the

Of the Winds. Chap. 6.

Artic. 2. Of the Kinds and Effetts of winds.

FIFTHere are many kinds of Winds, which were chiefly found out L by Navigation, and the operations of them according to the difference of their blasts and properties. The North-East wind drawes clowds to it. Circeius a Southern wind, hinders, that the North wind be not mingled with the smell of plants; and the force of it is so great. that it will overthrow an armed man, and lift ships up from the water into the Ayr, and carry away Windmills with the stones, house and men, to some other place, Pliny 1.2. c.47. Gel. 1.2. c.22. Olaus 1.1. c. 4. and 2. c. 3. There is a whirlwind that caufeth fuch Tombells to those that fail out of the Country of China to Jupan, that it is a miracle to escape thip wrack. In the Country of St. Vincent it roots up Woods; in Hispaniola it will take up men and carry them a furlong If they arife in the Island of Ormuth, they kill those they meet, with heat; and they part the flesh of those that are killed from the bones. as boyling water doth. To avoid the danger, they hide themselves in the water up to the head, Overan 1.6. Polus 1. 1.0.5. Women are wonderfully prone to lust when their privities are obvious to the South wind; but the North wind is faid to be fit for generation: whence it is that some believe it will raise men dying with its blast. Rhodigin 1.54. c.4. & 1.15. c.23.

In Lesbos at Mytilene, when the South wind blowes, mon are fick : they cough when the North-west wind blowes with North wind makes them well again. In Tercera it cars Iron and Rones, Bedieus in Geograph. Amongst the rest are the Etesia, that are very moderate winds, every year two dayes after the riling of the dog-flar they are wont to blow 40 dayes. They temper the hear with their blaft. and cool the Summer, and defend us from the burthen of the hor moneths. They rife at 3. of the clock of the day, (thence they are called fleepy winds,) and they cease at night. It is likely they are bred by great heat, melting the Snow that yet remains in the Northern parts. It is credible, that the Earth being freed from Snow, and uncovered, they will blow the freer.

The Aucients facrificed to the winds to please them. Herodotsus faith, That a Temple in Ilisum was built to Boreas; They call'd them at Athens Boreasmi, who kept the Feasts of Boreas. Wo believe P. Villor, that at Rame there was a Temple for Tempest, Rhodigin: 1, 20. c. 25.

CHAP.

Of the Earth-quake.

Artic. 1. Of the rifing of an Earthquake.

THE Ancients believed, that the Earth moved by waters fluctuating in the Caves of the Earth. Whence they called Neptune, Earth-shaker and mover, Gell. 1,2, c. 28. Others thought, the wind in the furface of the Earth returning into the hollow caves of it, did shake it. Others again, that the Sun kept the vapours within the ground, and they feeking passage to come forth, did wander where they could, when they found none. Reason and Experience are against it. There is in the West part of Spain a Mountain of wonderfull height, with many hollow Caves, Scalig. Exerc. 38. wasers fall down in them with fo great noise, that they are heard five miles, yet there is no Earthquake there; nor yet is the wind or Ayr. that goes under, very great; it is dispersed in the largenesse of the Channels, and the diverticles it finds, going farther, it is ftopt: Mineral operations shew this. For they make mighty bellowes to draw the ayr, left they should be choked for want of it. The contest of winds doth nothing, for that rather tends to the fides, or flyes upwards by its leightnesse; and at the first hindrance, they fly from the Earth like a whirlwind. It is uncertain whether the Sea can stop the passages, there are seldom any such great Caves by the Sea; nor can that go in at once, but it will be thrust back again: The Sun cannot more eafily exercise its force upon the Earth, and beget an Exhalation, than he can bring it forth being begotten; for the Sun beams; operate nor but by refiffance. Whileft they heat and dry, they open the fame, because exhalations ascend more strongly to that place which is neer; One, in respect of continuity, followes another; but howfoever they enter in, they eafily come out of the Earth, and more casily than they can shake it; for in Mines where the powder finds but a chink, when it is fired, it is loft labour.

Wherefore Exhalation bred from fire under the Earth, and shutup in the bowels of the Earth, causeth an Earthquake. And that is apparent by this. For before an Earthquake, Well-waters will not onely boyl, but be more troubled, and brimftony vapours come forth. From whence? The like vapours are toffed in the bowels of the

Barth, Pliny l. 2.

Actic.2.

Chapty Of Earthquakes:

Mile and a father of comments system of any and Artic. 2. Of the place time undeffells of an Earth-quake? วู้เก็บ 5 หรือท**อนส์มใ**หม่าที่ สายให้ 1 ๆ ปี **กร**อย่าย และป

Hole places are subject to Earth-quakes, which can basily take Il. in winds Solid places will napadmit it; fandy places mixed with lime do cafily difents it they want receptacles for winds Champion places have no Caves, Yet the whole Earth is mover thaken wofor the Vapours included have no proportion to the Globa of the Barth. If it should happen it must be ascribed to divine power; which inature would feem to challenge to her felfs. If you confider the duration it differs as the refultance is; few. Napours are fooner difouffed a many last longer, and rage a greater time; Senec. natural, 1. 6, 1/20 Campa. sintrembled many dayes ; Livy writes that at that time suwhen D. Cornelia and Q: Minucius neer Confuls & the Earth quakes were to fiequent, that men were weary not only of it; but of all businosses, The fame Author fayes that an Earth quake lasted 40 days wothers lay one harh lasted two yeares, and returned again and again: Livy 1. 44. 81. 45. Ariflot. 1. 2. Meteor. C. 8. Plino la 2. c. 82. Suchis the condition of the effects of it, that those that hear of ity will be affonthed at it, and those that see it dye: Of times it doth hot devour Houses, Cities, or whole samelies only st. but whole: Nations and Countried: somtimes the Earth falls upon them & somtimes it takes them into its deepilates and leaves not fo much whereby it may appear, that what is not now; ever was. Seneca, L.6. nature. The ground covers fomrithes the most noble Cities, without leaving any mark of their formet being, whereas the great hollow Gaves in the Earth are forced and shaken with winds and fall down, oft times in the Sea, a hollow pit opening drinks up the waters, on the Land Rivers, that both fish and shipping fink into it. On the other fide, the Earth lifted up into a high rumdur, hath caused Mountains on land, and Islands at Sea, formings the course of Rivers hath been changed, that hilly ground having both removed on that fide that they formerly ran. Histories arofull of thefe calamities. The last yeare of Nero, fields and Olive Trees, that tho high way passed between in the Country of the Marrucinum were transported to the other fide. L. Marciu, and Sextus Julius being Confuls, in the Country of the Mutipenfes, two Mountains fell together with a mighty noise, Plin. 1.2. and 1. 16. c. 40. Many Villages were then beaten down, and Cattel killed. In Parthia, there is a place called Ragai from the clifts, where many Towns seand Villages 2000, were overwholmed. At Cajeta in Italy, there is a Mountain toward the South sia part whereof an Earthquake fo divided; that one would believe the division was made by the art of Man, the Sea runs under it with a great noise. Agricol:inreb.quæ efflu.ex terra. The Houses of Helice and Burn two Towns in the Sinus of Corinth; did apl peare in the Sea. In the Island Amania, a Town was so taken in, that there was no appearance of it left. Not far from Ptolemais, the Waves of the Sea were carried into the deep, and so lifted up themselves, that they appeared like a great Mountain, and afterwards J., 2

CHAP.

CHAP. VIII.

Of Rain.

Of Rain.

Here is a great difference in respect of the abundance of Rain, is It time and other circumstances; and very wonderfull; no leste variety than there is in dayes; and oft-times greater, if you respect extraordinary things. In Ahab's days it rained not for 3. years. It never rains in Cyrenica: The harvest there is onely that which for the hasty ripening of things by reason of the Sun, or Ayr, or Winds, useth to come to passe. It is reported, that from sowing of Seed it is but 30 days to the harvest, Majolus Collog. 1. About Uraba a City of the New World; it rains most part of the year, and therefore the drops hang alwayes on the trees, Hifpal. p. 5. c.26. It never rains in Winter amongst the Tartars, but oft in Summer. But in the Country of Mexico the drops fall with such force, that they are faid to kill men. If you consider the substance, it is common water, that is the matter of it? yer examples frew, that it hath been of another kind oft times. It rained blood somerimes in Bornsia, Thuan. 1. 27. in the Island Pelagia, gold; in Lucania; iron, before the Parthian War in which Craffee was flain, Ammian 1.17. It rained Corn in Carinthia for two hours, above two miles space, of which they made bread, Thuan. 1, 3, de Anno 1548. Stones fell with rain, as big as Hens eggs, wherein were pictures of mens countenances, and Diadems, Lintar: ad fafeic. Anno 1496. After rained in the time of Leo, which lay a little hands heighth upon the tyles, Nicephilits. c.20. In the Wood Neuholen, they fay that a great piece of Iron fell out of the Ayr, like to the droffe, and it weighed many pounds, fo that it was too heavy to carry, and no Cart could carry it, because the wayes were unpassible, Agricola observ. Metal. c. 8. In Egypt it frequently rains very small drops, Mice breed of them, that use to gnaw and cut the ears of Corn, William 1. 6. c.40. Alfo in Thebais, when it rains with hail, Mice are faid to appear in the earth, half mud, half flesh, Elian 1.2. c. 56. But that is most wonderful, if it be not a Fable, that Olaus 1. 18. and Ziglerus hath in Norway, concerning the Northern Creatures. And from them Scaliger hath it, Exerc. 192. Self. 3. Lemer bestiola. There are fourfooted Creatures as big as field Mice, of a divers coloured skin, they fall in tempetts and showers; we know not whether they come from the remote Islands, or from foculent clowds. Afsoon as they fall, you thall find herbs in their bowels, raw, not digefted. Thefe like Locusts eat upull green things; this plague continues till green herbs come aguin. They come together like Swallows departing; they either dye at the fet time, or are devoured by (Lefrat) other little Beafts. we were told by our Mafter, the famous Dostor, Menclaus Vinlenius, Dollor of Phylick, and Profe for in the University of Prilia, that it rained Frogs in Ameland, which admits of no Progs. To conclude, in Velaunium, there rained from Heaven fo many Caterpillars in one night, that they were forced for two dayes to burn Braw to kill them creeping

creeping in their houses; all the men and women there, were hardly inflicient to perform this work, Dalechamp, ad 1.2. Pliny, c. 56. Sennertus thinks, that Creatures that can breed of putrifaction, are bred either of some matter watted by rain or else they lying hid in the bowels of the Earth, are called forth; but more perfect Creatures, and Rones come another way : yet he thinks that many of these ought tobe referred to superiour Causes. CHAP. IX.

Mithe Winter there is an infinite abundance of Snow with us but I there is none in the deep Sea, Pliny 1.2. c. 103. Nor is there any Juch in Athiopia, Alvarez, de reb. Athiop. But it is greater in the North. Sometimes great Trees being in the way, it all flicks upon the boughes, and the Ayr stops it that it can fall no lower, making as it were a vaulted Gallery. It is said to have beaten down a City, being on the top of the Mountains of Defrinium, where it first was like a ball, but at last like a mighty round Mountain, Olaus 1. 59: c. 15, and 1,2.6, 13. The tops of Mount, Caucafus have feared any lesse, for they cannot be come at in Winter; especially in Cambifena the quantity is fo great, that whole Troops of men are overshrown By it, Strabal. A. The Armenians are in the same condition; for those that passe over the Mountains, are suddenly covered with clots of Snow, that they cannot be feen, and that in the fierce Winter; Rhodigin. 1. 18, 1.29. In Tartary it comes on also in Summer: mighty cold, vast Snowes, all, are removed by the wind, Itispal. p. 4. 6.23. In the same, the Champion places of P.mer do sustain so great cold, that it will put out the fire, for it will give no light, nor can any thing be boyled with it, Polus 1,2.0.28. In Alofcovia, where water runs cut of a high hill, it is congealed before it touch ground, Surius ad Anno 1501. In Armenia they are red, which proceeds from the places that abound with Minium, and by the force of its exhalations they are colouted.

Nor is this against reason; for plenty of bloods yields a blood-coloured dew. Homer thews that, at Troy, (when he fpeaks of bloody drops of dew) that of it sprang hairy rough red Creatures; Apollowius calls them Worms; Theophanes, Mountain worms. There is a liquour in them which the people love to drink, Fullath, in Homes, Ariflot. 5. Anim. Hail is akin to Snow, whereof we have nothing to fay; except of its greatnesse; for in the time of valens it fell like stones of unufual greatneffe, at Coustantinople, Socrates biflor. Egglef . 1.4. 6.10. When Alarica took the City, it was greater than Hones that can be handled, and was about 8, pounds in weight, Majolis in Canical. In France, when Pafchal was Pope, one piece fell down that was 12 foot

long, Bonsinius. At Augustodanum, one 16 foot long, 7 broad and 2 foot high, Segebertus. And no leffe fell in the time of Bergomas for it was compared to an Offrich Egg, and was 12 inches about, Bonfinius. They fay, in the same year at Bommel in Gelderland there fell one stone was 3 pounds weight, on the 12th of June; sometimes the forms of it have been wonderful. Anno 1395, it had the images of men, with beards of women with Kerchers and hair. Ar Cremonial Ahno 1240. it had the fign of the croffe. But we are often deceived, and imagine what is not fo. Yet the Works of God are wonderfull. The state of the second of the

CHAP. (X. 1) and (and greater to gain in a second of the control o

of things Peaking Party of the Control of

Of Dem, Manna, and Honey.

TEW comes from a thin vapour, resolved into water by the cold of the night. It is first found in the light and thick seaves and flowers of plants; and sometimes it is scarce lift up above two Cubits high. Some say it was the daughter of Jupiter and the Moon; for as Plutarch faith, The full Moon makes plenty of Dem. And therefore dogs in the full Moons, can fent out things by the foot worlt, liecause the cold dew takes away the sent, that they cannot smell them : wherefore it is hard to hunt well in the Spring time. Plutareli faith. that fat women were wont to gather dew with cloaths or foft skins which they used, to make them lean, (& quondis airius.) Christophorus Vega writes, That Manna is made by some little Boes like thick Gnars, from whom fitting by swarms upon Trees, swear as it were drops from them. Semertus 1. 4. c. 8. thinks, that they are rather drawn thither by the sweetnesse of the Manna, and that they make it not. The Learned make a question, whether the Jews Manna was the same with ours? Many things agree, but in this they differ, that theirs ground in a mill, or bruifed in a mortar, was fit to make wafers. If it be not prevented, it will melt with any Sun; for an Easterly Sun will melt ir. We read that it is used for Sugar with water alone to drink, and to quench ones thirst; amongst those Shepherds that free quent the defarts of Targa, Scalig, Exerc. 164. Manna is of kin to to honey. This comes out of the Ayr, especially at the rising of the Stars; it is made especially when the Dog-star shines; nor doth it appear before the Pleiades shine in the morning, Plin. 1. 11. c. 12. Therefore then in the morning early the leaves of Trees are bedewed with honey; and if any in the morning be in the open ayr, they Thall perceive their clothes anointed with the Liquour, and their hair glewed together. This dow is afterwards collected by Bees, it is alcered by them in little bladders : It is put up in little Cells, like pure liquor, in which afterwards it grows hor, and is concocted with natural hear. The 20th day it growes thick, then is it covered with thin membrane which growes together by its frothing hear, Pliny Leitz 6.13.

c. 13. Alfothat it is made by Wasps, Pliny teacheth out of Aristotle. The Spanish Navigations confirm, that it is made of some Molucca flies in Trees, which are leffe than Ants. Lithuania and Mofeovia have great plenty. The story is old, concerning a Country-man that fell into a hollow Tree of honey, and a Bear drew him forth. We have heard that concerning honey, that Ariftotle speaks of grated wine; for it growes so thick, that it must be shaved off to drink it. Amongst the Troglodites at Belgada, honey is as white as Snow, and hard as a Rone, Scaliger, Exerc. 191. S. I. It is fo folid in Calicut, that they carry it it in baskets. Many things are preserved by honey, and many things die by it; for the milky humour in it is not weak; wherefore that remaining uncorrupt, corrupts others: Wallnuts keep their nature in it, for by their unctuous quality they refift their peculiar humidity, but Figs, Peaches, Pears, Apples, corrupt in it, Scaliger Exerc. 170.

CHAP. XI.

Of the Rainbow.

THe Poets feigned the Rainbow to be Daughter of Thaumas. The Ancients thought that the drew water by her two horns let down toward the Earth, Hence Virgil, Georgic. ver. 138:

But Properties. I. 3.
why doth the Purple Bowe Rain-water drink?

The colours are so exact, that no Painter can equal them. The blew colour is faid to fliew that the Flood is pass, but the fiery colour fliews that which is yet to come Strabo, citant. Rhodigin. Albertus thinks that 3, and fomtimes more may be made in it. When it is made at noon, we cannot fee it, for no man ever faw a Rain-bow beyond 3, miles. It is never made when the Cloud afcends, but allwaies as it goes downward, for fo it caufeth no dew, but when it falls away Rhodigin, 1. 22. 1. 12. 6.7. Celius denies that it can be made by the Moon beams. Sealiger, exerc. 80. f. 12. approves it. In the Island of St. Thomas, faith he, if a showr went before, the Moon will make a Rain-bow; the colour of it will be like a whitish Cloud. Combaching, Anno 1609, in June faw fuch a one ar Oxford. But Anno, 1599, at Midfummer after relighty Lightning at wittenburg, Sennertus, 1.4. Epitom. c. 9. . As for the influence, fome fay that Planes fmell the sweeter by the Rainhows hanging over them, Scaligor, exerc. 8 t.f. 7. Cardanus condemns this, yet it is not to be laught at, for sealiger faw a Cloud come down as low as the clift of a hill, and Ariflot, affirms it, of those especially that naturally fend forth the sweetest flowers. If it be in

Chap.XII. Of some haminable Natereots. 89

the Motning it thews a tempeter burong in the Hiening of fair syeathorn as Marrinets and Husband menthave observed brille caute of the latter is by rantomof the Cloud that hath unloaded it felf of water the former is because of the plantythat was dolle dediby the awiltare of the night. Thefe things for recreation are allenged by subliver Exerc. 81, file 2. But it is no light matter to give certain reafons for things,

that are uncertain.

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Hose things that happen extraordinarily either in the Ayraper till us, or in the higher 14 caven of the Stars, by their continual circular relations at Gods command, are ranke in the number of wonders. Not only of old time, but even of latter times, variety hath been observed. God and the holy Angells make fome of them, and the evill Angells make the rest. Calparus Peucerus in Therato Copia. Anno, 1532, not far from Denipous wonderfull lights were leen. The first was a Camel that was compassed round with flame, the other was a Wolf voiniting fire, and hedg'd in with a ring of flame ; A Lyon followed this; and an Armed Man, standing in the entring of the Mountain, did gently stroke his Mane, and he feemed again to flatter him. These pictures were forerunners of the death of John Duke of Saxonyand Elector: first there was a Tree withered and overturn'd. then there was a Knight on Horse-back prepared, carrying the Tree with the boughs lopt off, then there was a great black Croffe in a thick Cloud. At length a horrible Thunder bolt was leen to be calt out of it, with a wonderfull noise. Anno, 1534, the 3d day of July, in the Town Schleswich, at noon in a clear Sky, Lyons were leen in the Ayre, coming apace from divers parts to fight. An Armed Knight toke their parts, shaking his spear. There lay not far from the Knight a Mans head without a body, , wearing an Emperiall Crown, a little while after a Bores briftly head was leen, and two Dragons spitting fire. Lastly there appeared the Image of one most spacious City scituate by a Lake, and it was beseiged with a Navy and Land-forces. On the top of this was a bloody Crosse, by little, and little turn'd into black. There came forth an other Knight on Horsback, butning with a fiery colour, with an imperial Crown on his head, a horse followed him that had no Rider. Then in a large plain there appeared two burning Forts, neer to a high Mountain, where there was a great Eagle, that hid half his body behind the fide of the Mountain: there appeared some young Eagls, very compleat of a white colour. Also the head of a sleeping Lyon crownd with a Crown, and a dunghill Cock with his bill beaking and digging his head, till it fell looke from his body, and vanished; the body remaining lay visible. There were other Lyons present, and by the Bores head, a Unicorn by degrees turning him felf against the Dragon; and many other Creatures of extraordinary figures;

99 Of some admirable Meteors. Classis III.

and greatnesse. The Fort upon a high rock compassed in with two Armies, burned 3 and the whole Country feemed full of many Towns, Forts, and Villages. But prefently the whole Country where they frood was confirmed with fire, and a most large Lake overwhelmed therumes of this vast Country, nothing but the Towers appearing in that place, where that great City flood before. At the bank of this great Lake flood a Camel as if he drank.

But Anno 1545, the next day after Whitsontide, these Images were feen in Silesia; A Bear led an Army well appointed from the East; an armed Lion met him with his Forces; between both Armies a most clear Star appeared, presently they met and fought stoutly, that blood seemed to drop from their wounds, and their bodies to fall down dead. As they fought, an Eagle flew from a high rock, and waved her felf over the Forces of the Lion with her wings. The fight being ended, the Lion shined amongst his Armics; but there was no fign of the Bear; but they were all dead carcafes, where the other Army flood, and very venerable old men with their grey heads flood by them. The battel ended, the Lion retreated with his Army to the West; and when he was gone a little forward, a certain Souldier riding on a white horse very well adorn'd, return'd scom the Forces to the place of the fight; and upon that horse he set a young Souldier shar flood there in Armour; and accompanying him riding toward the East, he vanished with the rest of the Apparitions. But what speak I of old things ; our Age hath seen wonderful things, even this year. For in 1627, two Armies were feen to fight in Pomerania, the Northern Apparition became Victor. A fiery beam followed this, Mercurius Gallobelgicus. But Anno 1629, in March, in Mifnia two Armies met in the lower Region of the Ayr, they were so framed our of the Clowd, that their faces and countenances might be feen. The leffer Army got the victory, and put the greater to flight. It may be, these are fore-runners of things hereafter; which that they may happen, we heartily wifh; and with this wifh, we will conclude this Third Classis. Oh, oh! that it might be fo.

The End of the Third Classis.

10 Of Courses leaded the word Of Canadallo But a wear to the first four upon a sign and to the first of the second of the first of the second o Artistic of the second of the DESCRIPTION Wonders in Nature Commence of the contract of th

Wherein are contained the Wonders of Minerals.

His is an Argument of Wehlth, and thought to be true Glory; to possesse that which may all presently perish. Nor doth this fuffice us, that we arink in a trumper of Jewels, and we into two ave our cups with Emeralds; and we delight to hold the Indies for our drunkennesse, and gold is now but an addition, Plin. 11.33: Histor. natural. imprefix the second sec

CHAP. J. CHARAGE

Of Things digged up, in generall.

Itherto we spake of things elevated into the Superiour world; Now we shall consider of things under the Larth. Which because they are brought forth by mans labour, the Philosophers called them Fossilia, or things dug out, including them under the names of Earths, Juices, Stones, Metals: They think they are bred by subterraneal heat. Others think, that they were at first created by God, and do increase by a seminal principle. And indeed, it is not against Truth, that Metals are made of some vapours.

Avicenna faith; That more than once bodies of braffe, like to Arrows with forked heads, have fallen down in clear day, in Pensia:

92 Of Marle & Potters-Earth. Classis IV.

But in Spain a Masse of stone with Veins of mettal tell out of the Skys, Lydiat defontib. 6. c. 6. The latter is confirmed by the testimony of some Writers. For the Gold of Corbachium in westphalia, every four year grows and springs again in heaps. In Sclavonia a vein of Lead every 40. yeares is changed into Silver! A dry scale of Brasse into Gold, in one yeare. Iron in Silefia at Saganum is digged a new, every tenth yeare. In Sweden, red fenny mud, laid one yeare in the open Sun, becomes good Iron; The Mountain of Fessula in Hetruria hath lead-stones, which if they be cut out, will in a short time grow again; Cafalpinus, l. 2. de metal. c. 6. relates of Iron that is dug up in Alva, an Island of the Tyrrhene Sca, that all the Earth that wanted Mettal, that is dug up with the Iron will the next time they dig, be turned into good Iron, Lastly in the Indies, there is the Mountain Oromenis, where fair is cut out, as out of quarries, and it grows again, Cefalpin, 1. 1. de Metal. c. 1. But that is wonderfull which Garzias ab horto writes of the Diamant, Simpl, India, 1. 1. c. 47. The Adamants, faith be, that lye deep in the bowells of the Earth, and require many yeares to their perfection, are bred almost on the surface of the ground, and are ready in 2 or 3 yeares: for dig this yeare but a cubit deep in the quarrie, and you hall find Diamonds; dig there after two yeares, and you Ball find Diamonds again. But how that should be, it is hard to fay ; yet no man can speak with more care, than Nature can work, when especially she is produgall, and sports her self in the variety of things, Pliny, 1. 21. prafat. Yet it doth not feem unreasonable that the Vapour should congele with a fit matter, and that which is not well concocked to put off to another time, and so to perpetuate the generation. Truly the Flux of Veins hath fomthing proportionable to vegetable nature; and the relation of a Physitian of Friberg, that, in the Lungs of such as use to dig in Mines, their bodies being opened when they are dead, you shall find the same Mettals grown hard, wherein they laboured being alive (Sennertus lib de confensu et difs. Chymicorum et G alentcorum) scems to intimate as much.

CHAP. II.

Of Marle and Potters-Earth.

Arle is a thick fat Earth, and yet is fomtimes so fluxible and white, that it seems like to marrow in the bones of living Creatures. Of times it is hard, and being drank it stops the Veins that bleed at the mouth, and hath the same force that Terra Samia hath; It is dug up in many places, especially amongst the Saxons, At Gossaria there are two forts, one is Ath-coloured, and the other is whiter, of which are made forms, wherein your Image makers make their Pictures they cast. Sharp cold will divide them both into very thin plates, though the former, before the cold have seazed upon it, consists of thick crusts. Potters Earth is thick, soft, it is hard to come by: works are made of fat and thick.

Chap.3. Of Terra Lemnia, &c.

matter, that the force of fire will not quickly break. Of the same are made Vessels that will neither drink up, nor consume liquor: wherein water that parts Gold from Silver is both made and kept. Potters Vessels have ennobled many Countries: as Asia, by those were made at Pergamu, those that were made at Tralleis. Terra Coa, and Samia are not unknown; and Aretina is wonderfull, Plin. 1.5. c. 13. Noriberga sends earthen Furnaces, wherein Gare are and Mettals are boiled. Of clay digged up at the Fort of Rottingberg, are made purging Vessels wherein Alchymy is made. These being cast out of the fire with the brasse do not break, but are drawn and wound like burning Glasse. Agricola de illis quae essodiumtur ex terra.

CHAP. III.

Of Terra Lemnia, Armenia, and Silestack.

Erra Lemnia, otherwise called sealed Earth; For Diana's Priest, taking it upon him for the honour of his Country; offering for expiation, wheat and barley, brought this into the City, loked with water, and making it like clay, he dryed it; that it might be like foft wax, and when it was become fo, he fealed it with the facred feal of Diana, Gal. 1.9. Simpl. Now it is digged up yearly, not without superstition, the fixth day of August onely. They that dig are Greeks, the pit fends forth a fweet smell. It is digged after Sun-rising for 6. hours, and it is laid up in one lump, and it must see no light till a year be expired. Then it is taken out and washt, being washt it is put into a bag; it is mingled with hands, it is made into round Cakes, and marked with the Emperours feal. Then it is dryed and put into a fealed Cabiner, and fent away to the Emperour to Constantinople, Stephanus Albacarius in Epift. ad Bufbequium. It is good against deadly poylons. Galen tryed it against the Sea hare, and Cantharides; and found it good. The same Authour writes of it, that in a certain hill by the City of the Ephellii, where no plant lives, it is dug up, the ground being as it were burnt. Terra Armenia was wont to be brought from that part which is adjacent to Cappadocia; Galen faith, it helps difficult breathing, so that they die, whom it cutes not. It is drank with Wine in a thin confiftence, moderately allaid, if the party have none, or but an easie seaver; but if a strong one, with water. At this day, there is a Bolus Toccaviensis in Hungaria, it is like! butter, and is good against Catarrhes; so that it is preferred before the Earth of Armenia; Crato in Epift. Sileciaca Strigensis, is also preserted before Terra Lemnia; Sennert. Scient. natural. 1. 5. c. 1. Johannes Montanus Silefius was the founder of it, who writ a book of the same; that it is transmuted gold, by the ordination of God in his providence of nature, prepared and transmuted into a most excellent remedy, that chiefly prevails against venome, no lesse than the Medicaments that are made with great cost out of the best gold of Hungary: CHAP

A cof salthouse the end were is a mineral

on his die on the world strong of & Alt is either made, or else it growes. It is made of falt Fountains, The water whereof boyled long, at length is turned to falt. It breeds many wayes. It is dryed in the Lake Tarentinum, by the Summer Suns, and the whole Lake tugns to falt; in some places it is moderated, not above knee sleep. In Ballria two Lakes very large, one toward the Scythians; the other toward the Arii, boyl with falt: Allo the tops of some Rivers, and condensed into salt, the rest of the River running as it were under the Ice, as at the Caspian mouth, that are called Rivers of Salt. Among a the Ballrians the Rivers Ochus and Oxus carry out of the opposite Mountains sholes of Salt. There are also natural falt Mountains, as Oxomenus in India, where it is cut out of quarries, and growes again; and the Custome of it is more to their Kings, than from gold and pearls. In Cappadoria it is digged out of the earth, the humour being condensed : there it is cut out like Talkum glaffe. King Ptolomy found fome about Pelufium, when he pitched his Tents. By this example, afterwards between Egypt and Arabia, it began to be found under the fands, as in the defarts of Africa, fo far as the Oracle of Ammon. It increaseth with Moon-nights, Pliny. A thin falt is bred by the Sea; for when the Sea llowes, it froths, and drives that froth against the shores and Rocks. These are cut off, and laid upon them to dry, and in some places are turned into falt, Diefeor. There is a Lake of Salt in sicily to bright, that, as Pling writes, you may fee your face in it. That of Colomeum tastes like rosted eggs ; when it is hard, it cracks in the fire and leaps out; but melted, it doth not fo: nox yer that which breeds in Lakes that is dryed by the hear of the Sun. Salt of Agrigentian will leap out of water, faith Pliny; torrified, it loseth little or nothing of its magnitude; but moufined, it los feeh. Heaps of Salt that in Africa are made by Wica, and like hills for height, they grow fo hard by the Suns heat, that no rain will mele them, and they can hardly be cut with Iron. It is observed, that fuch who are much disposed to putrid Feavers, are preserved from, them by cating of falt freely with their meat, Math. de febr. peffil. Also fields where it is sprinkled, become fruitful by it, as experience makes good. Fat women, by the moderate use of it for to season their meats, grow fruitful: for it wipes away the moyfure, and dryes the Matrix that is over-moyst, that the feed may slick: Also it fire up the loins in men, and caufeth Erection, Lemnius de occult. 1, 2110. 36. Mence the Agyptians used no salt. That it helps to fruitfulnusse, Mice abounding in thips, and the continual lufting of women thad use much falt, is a fusficient argument. Libavius tom. 3. fingul. 1.5. vthinks, it nourisherh, and is changed into ones substance with other things : for we feethar there is no body but that Salt may be extracted from it. The generating of the most pretions Pearls in the Sea, and of Coral, Chap. 5. Of Allumand Mitte. 10

that comes forth of Rocks with boughes and pranches like a Tred divided, is afcribed to falt, Quercetan de medit. Prife. abil. 2. Farther; being put to the mouths of fuch as are Epileptick, it raiseth them. In swoonings, either by resolution of the spirits, or by oppression of them, do but rub the Lips with it, and it is a present remedy. Held in the mouth or swallowed, it hinders Worms from ascending into the stomach. Lastly, that it is an Anridote both for hunger and thirst, the Army of Charles the Fifth made good, at the siege of Tuneram: They had dyed, had not every one of them held a grain or tho under their Tofigues; Bitker in Prafilib. de fanitiebrit. William in the minder their Tofigues; Bitker in Prafilib. de fanitiebrit. William in the minder their state of the minder the

Metaconomy of the Araba CHAP. V. 12 March Symmometric

more in appear to the state of of Allum and Nitre.

Party of the Stiller of Duthing Said Letter Here are many figures of congealed Allum; Allumgalled Saft fum, is the flowr of Allum inclods, and is preffed together like planks; or it flouritherh feverally likegrey hairs: round Alhan swells like bubbles, or is like a spunge, by redson of the holes in it. The liquid Allum sends out of it self such a vapour that smells like fire, as stones do when they are rubb'd together to cause fire. When it is put upon burning coles, or else put into a por and is torrified with fire burning under it, it swells into bubbles, and loseth something of

its substance, Plin. 1.31. c. 10. Nitre in the Clyte of Macedonia is the best, they call it Calastricum, it is white, and next to Salt. There is a nitrous Lake, where a fweet little Fountain comes forth of the middle of it, there With is made about the rifing of the Dog-ftar for g. dayes; and then it ceafeth as long; then it Iwims upon it again, and then ceafeth. This is the wonder, that, the Spring of water always running, the Lake doth neither increase, nor run over. Those dayes wherein it is made, if there fall any rain, they make the falter Nitre. The Northern showers make the worst, because they stir the mud too violently. It is made also of the urine of living Creatures, that falls alwayes upon good and thadowy ground, Ang. Salic: Vinc: S. 1. aph. 28. It looks white, feels cold; it hath in it felf a most red spirit, most hor and taking fire, Sens nert. 1.5. Epitom. Scient. natur. c.2. When it is burnt, it fends out alone no favour, that fenfe can perceive; but mingled with quick lime, it hath a most vehement finell. The Leppitais strewed their Radishes with their Nitre, as we do with Salt. The Macedonians adde forme of the Calastraum to their Meal, and mould their together to make bread. The fine fands of Nilus, which as it feems were hitrous, were carried by Patrobius, a Freeman of Nefon, to white their bodies with. Alfo Nitre, of which is made Halinitre, is at Serveffa, and Beinbergum, Georg. Agricola. That Land will receive no Rain above a cubit. Like unto this, is that, where stone Walls, both in Wine-Cellars and stady places

places that are free from showers, that use to wash it off, do so sweat; as if they were sprinkled with flowr.

Of Calcanthum or Vitriol.

I He buft is the Roman, and Hungarian, the goodnesse is tryed by Il rubbing your knife against it; for if it make it look like Copper, it is the bost, Quercetan, de capit. affett. c.30. It is apparent, that in its fecret qualities, it contains Copper. The Ancients took one dram inwardly, and kill'd their Worms, and cured the venom of Mushromes, Sennert, I. 5. Epit. Scient, natural, c. 2. A little piece of the white diffolved in water, is happily used for the itching and rednesse of the eyes, Platerus de dol. p. 313. Riolanus saith, That the spirit of it is a caustick, that it will cat glasse wherein it is made. It hath Antipathy with the oyl of Tarrar, they are both most acute and tharp. If you mingle them, the acrimony of both is loft, and the liquor becomes infipid, Boethius 1,2. de lapid, Joyned with Nitre, it makes water fit to dissolve filver, Minder. de Vitriol. c. 9.

CHAP. VII.

Of Naphtha, Petroleum, and Maltha.

Aphtha, is the percolation of Bitumen of Babylon, so near akin to fire, that it will take fire at a distance, and easily be inflamed by the Sun-beams. Platarch relates, That in the hollow Caves of Echatana, by the heat of fire, that it flow'd as it were into a pond; fo ready to take fire, that before it came at it, it would take fire with the light of a Torch, and fire the Ayr that was between. The Barbarians to show this to Alexander, strew'd a Village with it, that was in the way to the Kings Lodging; and at last putting a five-brand near it, it flamedas if it had been all on fire. Hence he addes, that Napiha by some was called Medea's medicament, wherewith the anointed the Crown and Garment of Creon's daughter, and burnt her by this art. Of this in Persia is made a Physical oyl, wherewith a dart anointed, if it be shot flowly by a weak Bow, (for with swift slying it is extinguished) wherefoever it sticks fast, it burns; and if any would put it out with water, it burns the more; and there is no means to put it out, but by casting dust upon it. It is thus made: They season common oyl tainted with a certain herb: By experience of thefe things, and by continuance, a certain kind is made by the Persians, that congealing from a matter very natural, is like to thick oyl, and they call it Naptha, a barbarous name, Libav. Tom. 3. singul. 1.2.c. 7. Petro-

leum is more liquid than Naphtha; In Italy and the Country of Matina it distills out of a Rock, white and red of a strong smell. In sicilia it swims upon Fountains, which they call Sicilian oyl, and they burn it for Lamp oyl; Pliny commends it against the Scabs of Cattle. In the Country of Parma it runs forth white, at the Village Meiana; There are 3. Fountains there; they gather it every, or every other day, thus; They shake the water with brooms, and foroing the oyl into a corner, they take it with veffels. Every day half a pound in the most hot and dry time of the year, Baybinad I. I. Diosepri 6.85. Of the red, at the Mount Zibethum, in the Winter, they dollect 15. ounces, in Summer 45 ounces. In the Village Allenfe, it is collected black, with a fleece and a scoop. The more water, is drawn forth, the more oyl they take; femerimes 340 ounces. It varies as the place doth. The Italian burns not in its Fountains the Babylonian doth. That is wonderfull which Mathiolus reports, in l. 1. Differid. c. 82. Hercules of Ferrara à Contraries, had in his possession a pit, into which Petroleum diffilled; He higed a Plaisterer to hop it; and because he could not do it without light, he let down a Candley and the Petroleum took fire by it, and threw forth the Plaisterer, and brake down the fides of his pit. Ataliha, is the Aratning of Bitumen, mingled with mud, that is like clay, a pliny speaks of it, Land. 104: In the City Samofata (faith he) of Comagena, there is a Irake that fends forth burning mud, it sticks to any solid thing it toucheth, and in followes, when you draw from it. In joyning of walls it serves for lime, And the Babylonians used it to build their walls with, Vitravius 1.1. c. 57

CHAP. VIII.

Of Pissaphaltum, and the wayes of Embalming dead Corps.

I faphaltum is Bleumen that Pitch is boyled with. Bauhinus thinks, it is Mummy of the Arabians. But this is of two forts, naturall, and arrificiall, that they embalmed with, confisting of Myrrho and Aloes. But of the materials, and the manner how to embalm, we shall speak of them here, as we come to fall upon them : Diodorus Siculus, and Herodotus I. 3. are large concerning it: Three men perform this work. The first is called a Grammarian, who as the body lyes on the ground, appoints how great the incision shall be about the small guts on the lest side. The other is the Cutter, and he opens the fide with an Athiopian stone, and then suddenly runs away; for those that stand by detesting the fact, purfue him with stones. Then follow the Embalmers. One of these drawes his incision through the inside of the body, besides the Heart and Kidneys; Another washesh it with Phonician wine mingled with spices. Lastly, they anoint the body walled with Unguents of Cedar, and other pretious things for 39. dayes. Then it is delivered to the kindred that mourn for him 3 the 93

hairs of his eye-lids and eye-brows being preferved, that he may feem to be afleep. Herodotus speaks of three kinds of embalming: The first was by pulling the brains through the Nostrills with a hook, and the bowels taken forth with an Athiopian Rone, they cleanfe it with Phanician wine, and stuffe it with spices, then they fill the far pannicle with Myrrhe, Cassia and sweet odours beaten, without Frankincense, and sew them in, then they sale it for 70 dayes; then they wash the Corps, and wrap it in a linnen cloth, and smeer it with Gum, and lay it into the fathlon of a Man made of wood. The other is, by falting it 70 dayes, which drawes forth the inward filth. The third way is, the poor cleanse the belly with wathing, then for 70 dayes they dry it with falt, and then they lay it up. And not onely men have been fo honoured, but beafts alfo. For fome beafts were facred to the Egyptians; and when they were dead, they covered them with a linnen cloth, and spread them with fait, firiking their breaks, and howling. And to preserve the body the longer, they anointed it with oyl of Geder, and kept it in hallowed places. Also they but divers Idols into the breft of ir. Rondeletius found in the breaft of one of them 20 leaves of ancient Paper, written with Arabian letters. Baubin, ad l. r. Diofcor. c. 85. Moreover, the French commend Mummy formuch, that the Nobility will never be without it. They fay, that Francis the r. alwayes carried it in his purie, fearing no accident, if he had but a little of that by him? 15

CHAP. IX.

Of Camphir.

"I'lle Moors write, that Camphir is a Gum of a Tree, that spreads Jour its boughes fo far, that 100 men may stand under the shadow of it. They adde, that the wood is white, reedy, and hath the Camphir in its spungy pith. That's uncertain, but it is more certain, that it is made of a kind of Bitumen; thus, The Ind an Bitumen, which springs from the native Camphir, is boyled in a vessel with fire under it; the thinner parts turn into a white colour, and are carried to the cover, which gives them the form we fee, when they are collected. Merchants fay, there is native Camphir in the Indies. It is fo near to fire, that once fired, it will burn all out. The flame that comes from it, is bright and finells fweet. Hanged in the ayr, it evaporates by degrees, the most thin parts are the cause. Hence Apothecaries put it in a close vessel with Milium or Linfeed, and cover it, Plater de l.f.p. 165. The finell of it hinders luft; deank, or finelled to, and carried about, it extinguished the seed. And because it flyes to the head; if it carry up with it cold humours, it may cause sleep, and make men hoary before they be old. If to women, fick of the Mother, or fainting of heart pains, a fmall cup of water be exhibited, wherein fo much Camphir is burned as a hazel-nur, it presently helps, Heur-

mus 1, 2, Medic. The Neotericks hold it is cold, and that it is mitigated by Ambergreece; and that the drynesse may do no hurt, oyl of Violets is poured upon it. Garzias ab Horto faith, he learned by experience, that in inflammations of the eys it was as cold as Snow. But Minderevus I, de Peste writes; That when he went to visit lick persons, and had swallowed a small piece of it, the perceived nothing within him, but like a very small fire.

Of Amber or Electrum

Ome think it to be the juice of Trees; but amille. There frand no Trees by the Sea, that Gums drop from them, falling into the Sea, of which Amber is made. It is more certain, that it is a thick juice of the Earth. The most part is found in Bornfrid; also in Curlanelia, on the part of Sarmatid, but not fo plentiful. It is taken in nets like fish. When the North-west or West wind blowes hard at Sea, they all run to the flore, with caffing nets of yarn in their hands, Horicol. in 1, de Fossil. The winds being allayed, but the Sea flowing, when the waves return back, they draw the Amber from the bottom; and an herb like pennyroyall, that growes in it. When they have taken it, they carry it to the Magistrates, who give them the weight of it in falt. Every Moneth it is faid to be fold for ten thousand German Crowns. At Buchania in Schetland, a masse came to shore greater than a horse. The ignorant Clowns used it for Frankincense? Wester Boetins in hiltor. Scot. Precious figures are made of it; the Roman's were fo taken with it, that a little picture of it was more than the price of a living man, Plin. Histor nathral, Rubb dait drawes fraws, if it be not fineared with oyl or water. Some feek, the cause in a dry Spirit : But, Scaliger Exerc. 104. f. 12. faw it graw'a green Lettice. fome in the super elementary quality: others think it comes by accident, Fernel, 1.3. Med. c.4. For it hath piercing and tharp pitits, and withal glutinous and fat. Being attenuated by subbing they was not. and they cafily pierce into light things, as they break forth, Libavius in lib. fingular. When they meet with cold things, they congele; congealed, they return toward their beginning; for the hear is driven back by its contrary. If you make a fine powder of chaff, and iron, the Amber draws forth the chaff the Loadstone the iron. In the shore at Puceca, of former times, they digged up fome of Ash colour 5 which when it was broken with iron, it drew finto it leaves that were upon the ground, and two foot from its which they were blown up into the Ayr: The white finells the best, Because of the Plague, Chambers are perfumed with the ferapings of it; the fent lafts for 3. day 25 devery in fire, flames away. thin piece of it burnt in fire, flames away.

CHAP. XI.

Of Ambergreece, Jet, and Earthy Bitumen.

Mbergreece is a Juice in Asia amongst the Mors. Some think it growes like Mushrooms, out of the Earth under the Sea: Others fay, that the Cod-fish doth greedily follow after it, and kills it felf by devouring it: which the Fishers knowing, taking him in their Nets when he is dead, they unbowel him, Machiolus in Dioscor. 1. 1. The truth is, it runs out of the Fountains into the Sea, and being hardned, there it is cast upon the shore. It is good for the brain, that is cold, Libav. 1.3. Singul. It may hurt the heart, u slesse the cause be cold that molests it; namely, if the spirits be hot, and too much atrequated, Heurn. 1.2. Medic. A Plaister of Amber is good for bald and weak heads from a cold cause. He that carried it, after a little use perceiveth it not. The weaker a woman is, and the Matrix moveable, the more eafily is it disquieted by Musk and Amber, and her head will ake. Infused in wine, it will make men drunk. Black Bis tumen hardned in the Sca is called Jet: which the floods use to cast upon the shores of the Asyi with Amber. Earthen vessels that are glazed with it are not defaced, Plin.l. 36.c. 19. When it is burned, it finells like brimftone, It is a wonder, that it kindleth with water, but is extinguished with oyl. It discovers the Falling-sicknesse and Virginity by the smell of it : drank by a Virgin fusting, it causeth her to make water, Dalechamp, in Notis ad l. c. Nicander in his Theriacks calls it, indamino sirem; the Interpreter expounds that, Jet's which is found great, and of a pale colour on the shore at the Town of Ganges in Lycia. Stralp faith, That erceping things fly from the fent of Jet. It is called Barthy Bitumen, otherwise burning ftone, because it will flame, and is good for Iron-Smiths Furnaces. It is called Ampelities, because it kills little Worms called Caipas; Also Pharmocitie. becouse it is good in Physick: I saw it dug up in Scotland. So in the Jurisdiction of Leids, where if it be hard, they make Chapelets of it to say their prayers upon. Hitherto belong the bituminous Furrs, that being dryed, make the Dutch suel: Also the , are dug forth in Collaum, a Province of Peru, which Monardy describes in these words: In Collaum, a Province of Peru, there is a place all bare; no Tree norplant grames upon it, because the Earth is bitumineus, out of which the Indians extrast a liquour good for many diseases. The way to extrast it, is this, They cut the ground into Turfs, and in an open place they lay it upon rods or greater reeds, pairing refeels under it to receive it; for by the heat of the Sun this Bitumen melts, then the dry turfs remain without liquer, fit to make fires. Moreover, on the left hand in the thore of the Sinus Pucies, not far. from the Monastery, there are found clots of congealed Bitumen, very hard, about the bignesse of Eggs. They all burn, being kindled, Agricol, in l. de l'offil. Near these there grow pale-coloured shrubs that finell like fish, they are 3 or 4 hands breadths high. They have no

roots, and are like little dishes; the Greeks call them Lepadas, they flick to the clods

CHAP. XII.

of Corall.

Morall, otherwise Stone-tree. It comes from a juice that is stony when it growes, under the Sea water : it is a small Tree green and fort, bearing Berries, like the Cornus Tree; in shape and magnitude, but fost and white; it presently growes hard before it is cut; it appears all green. Sometimes also the falks of one Corall Tree are partly red, partly white; and partly black. In the Mediterranean, they gather great quantity of it; and those of Masiliago yearly to fifth for it, and draw it from the bottom of the Sea with Nets. Difvent Chimic. 1.2 c.49. Linfthot, part 3 orient Ind.c.t. At the Cape Bon Efperance; he faith, there are Rocks, on which Coral grows of all colours. The Indians weare it because Southfayers think it avoids dangets. The vulgar thinks it can preserve their Children from Witches: This is sufferflitious, but certain it is, it will quench thirft, being extreme cold: Mercurial, 1. 3. de curand, affett. Tied to the neck sit drives away troublesome dreams, and stills the nightly scares of Children. Parfa de provog vine l. 4. If a Man weare it, it will be very red! but pale, if a woman use it. Lemn, l. de occult. c. 22. The fuliginous Spirits in a woman are the cause of it, and the faint heat in Coral In men the naturall heat is strong and evaporates. Hence if Coral be covered with Mustard feed it waxeth red. There are other Plants in the Sea that come from a fuyce that grows into a florie. About Hercules Pillars, and in the outland Sea, Trees, grow like Bay Trees. In the Indian Sca, there are Bull-ruthes and Reeds; in the red Sea, Multirooms; all which being cast forth, are changed into stoness Theophrafim and Pliny confirm thefe; To this apperrains Syringites, that is like a joynted fraw, and the reed hollow.

CHAP. XIII.

Rimftone is dug up in Islandia by the Mountain Heela, and that Dwithour fire. It is yellow that is digged out of a Plain of Brimstone, which in Campania' they call Virght-Brimstone, because women paint their faces with it. It is to friendly to fire, that pieces of it laid about the wood will draw the fire to them. The Greeks and Romans did purific houses with the sume of it; put into the fire, it will by the fent discover the Palling-fickheffe, "Anaxilaus made sport with it, carrying

carrying it about in a red hot cup with fire under it, which by repercussion made the guests look pale as if they had been dead; Plin 1. 35.c. 15. The Chymilis make fuch an effectual oyl of Ballome of Brimstone, that it will suffer neither live or dead bodysto corrupt; but keeps them so safe, that no impression from the Heavens, or corruption of the Elements, or from their own original, can hurt them weck, Antidot, Spec. l. 1. I shall fay fomething of Stybium. It hath an exceeding purgative quality, as we fee by experience. Mathiof. ad Diofcorid, 1. 5. c. 59. Andreas Gallus, a Physitian of Trent fell intoan inflammation of the Lungs, Heart and Stomack, with a wonderfull thirst, swelling of the Throat, bearing of the heart, and a strangling distillation all most from the head. He took three grains of Stybium with Sugar rofat; first he cast up yellow choler 4, ounces weight, and afterwards 2 pound weight, fymptoms ceased, and he recovered his former health. Georgius Hendschius writes, that the same thing hapned to him in the pestilence; Also Lucas Contilif. Senensis: taking 4, grains of Stybium vomited up 12, bits of Turpentine Rosin, that he had swallowed 15. dayes before. But a Parish Priest of Prague that was mad of melancholy, taking 12 graines of the same, purged choler downwards, that had like scrapings of flesh mingled with it, and they appeared as great melancholly Veins called varices cut into peices.

CHAP. XIIII.

Of Juices that grow into stones.

had allmost forgot juyces that harden like stones. Nature hath I wonderfully sported herself in them, sometimes it hardens before it touch the ground, and fomtimes when it is fallen down, Both. these ways are seen at Amberga, where there are white pillars made by it. Agricol. l. de effl. ex terra. What ever drinks it in is made a stone, if it be bur porous. Hence you shall find stony Fountaines; and Wood and Bones that are dug up. When the workmen in time of Warr fled into the Mines of Lydia, about Pergamin, the entrance being shut up, they were strangled, the den was afterwards made clean, and there were found Veffels of stone fill'd with a stony juyce. About the Coast of Ellog, there are great-firr Trees, with their barks, in the cracks whereof a fire stone of a Golden colour growes. About Cracovia in Bohemia, there are Trees with boughes, out of whigh there are Whet-stones with corners; which was a Present, tent from the Lords of Columbratium, to Ferdinand the first. Hildesham hath beames laid upon heaps; the heads of these somtimes flick forth, these being stricken with Iton or with another stone, not unlike the marble at Hildesham, they smell like the sent of burnt horn. There is also Wood changed into a stone, and in the cracks of it there is

Ebony dug forth, which Theophrasis was not ignorant of, that it lay this learnered in the hollow of other stones. Looking Glasses, rubbing Cloths, Garments, Shoos, being brought into a quarrey in a specific of Trois become itones, Actionism. Bill itones that congele from plyce are commonly for and Britile. In the Hot Baths of charle the 4th What is the stope ther are to und, Hollow like Hives? Half Globe Heil Yed, fo great as peale, they grow from the drops of the hot waters fallilig down. Bilt those carefied Venells that are found in the Earth Welle Pirchers for dead mens bones, because in all of their covered with fide, there were affice, and in fome Rings were found, wee Antients, as all know, id butn'and lay up their athes. In travello Anticuts, as a fixnow, to built and lay up their affect. In May all foure found in the folds of Naples: but what hapned at Veronen.

The desired in the second of the seco

Of the Loudstone.

Chap. 17

of the Loadstone.

He Loadstone is well known! The effects of it are admirable, two are special, its turning to the poles of the World; and its dawing of another Loadstone and Iron. As for the first ist many places it dorn hor exactly respect the poles, the Declination is formtimes more or leffe. This age observerh, that for to degrees beyond the fortunate Islands, where Colmographers have let the beginning of Longitude, it concurs with the poles of the World; toward the East it varies more; About Normberg, they count to degrees, "in Norway 16; in Zembla 17, as the Dutch observed ; but one Gilbertus hath found out 23 degrees variation. Whence we collect the greatest variation to be 23 degrees. If we ask the cause, the learned are of divers opinions, fome fay there are certain Mountains of Loadstones under the poles, and they say the Loadstone hoves by sympathy. Others write that it tuens to certain Starrs. Others fay there are in it two opposite points, whereof the one turns to the North, the other to the South. Others think, that it moves toward the South, because the operation of all the Planets is Southward. They all feem to be deceived. How great and what kind of Mountains these are, is yet naknown, and there are many Mines of it in Ægypt! Irdoth not directly point at the Pole, unleffe it Hand in the Meridian, The point that is toward the South, is held the Itronger. The work-Maiters gives us a notable Maxime, when in the filiger of the Marriners Chargathey rub that part of the neidle with the Loadstone, wherewith it turns to the South. Laitly there are opposite places, wherein the Eccliptick declines from the Aquator toward the North, and the Planets from the East make their motions by the North! It feelis

CHAP.

moft probable, Sepnert, l. 5, fcient, natural, c. 4. that the Loadstone moves toward the Sputh pole, either only, or if it hath two motions, the greatest is Southward. Let it fuffice what Scaliger writes Exerg. 131, Mature, faith Ec, is at concord, and agrees with hor felf, the unites by an admirable order, all things above and below, that it may be one by a perpetual necessity. So that there are in things seperated not only steps, entrances, and retreats, but also minglings of those things which seem to be wholly parted. Bodinus pronounceth that all the 4, parts of the world are equally respected by the Loadstone Theatr. natur. 1.2, For (faith hie) the feel needle enfily rubbed upon the Loadfone from that part of the Loadstone that pointed North before it was cut out of the rock, if the needle be equally ballanced, the end rubbed with the Loadstone well turn to the North. The Same force there is to the South part, If the needle bernebed on the South part of the Loadflone. Nor is the force lefte for the East or west part of the Loadstone : though the stone cannot turn it felf to the roles of the world , but only the feel needle that is touched with it. But this I have faid cannot be understood; but by experience : for if you put a peice of Loadstone. upon a peice of wood swimming in the water, and you apply that side of the Loadstone that looked Southward before it was cut out of the Rock to the fide of another Lodftone that looked Southward alfo, before it was hewen forth, the flone. that swims will fly unto the opposite part of the Vessel with water; but if you turn the Northern part of the Loadstone, to the Southern part of another Loadstone swimming in the water's the Loadstone that swims presently comes and joyns with it, fo that the, both unite by an admirable harmony of nature; though the wood or the Vessell of water be between. The Same will be done, if you put only an iron Needle, thrust through a quil into a Vessell of water, and hald in your hand a peice of a Loadstone one side of the Loadstone will drive off the needle, the other will draw it. So faith Bodin. What concerns drawing : that the Loadstone doth draw, is maintained of the Ethiopian Loadstone; Plin. l. 36. c. 16. experience hath proved it; Libavius. I, faith he, when I proved this, wiped off all dust from the Load-Stone, and then I scraped away some powder of its own substance, this was laid upon a paper or plank of wood, and the powder scraped from it was laid under it, the Loadstone moved and attracted. The Loadstone draws the Loadstone, by a certain line, because there is a spirit in it like to the other, and nature enclines and is carried to its like, as much as may be. It is as cereain, that it draws Iron also. The hardnesse of Iron gives way, and obeys; and that matter which tames all things, runs to I know not what empty thing, and as it comes nearer it stands still, and is held and flicks in imbraceings, Plin. l. 36. c. 26. The vertue of it was found out, when the nails of his shoos and top of his crook stuck fast, for the first inventor was a Heyward. Nor doth it draw Iron on each part with the same force. The rule seems to be a right line. Therefore where the vertue comes not, the ends are turned, and whilst one of them inclines to the needle, the other accidentally turns from it, and feems to reject it. The same reason serves for divers Load-Stones. In the Midland Seas of Sardinia, at the foot of the Moungaines that part, they bend Eastward; they say there is a Roadsone that draws from, but on the opposite part, one that drives it off, and therefore

Chap. is. Of the Loadstone. therefore it is called Theamedes, Plin. 1. 2. Wherefore do we go to Mountaines? We may see it in every laboratory, if we will beleive Libavius, Syntagm, Art. Chymic. Trast. 1.1.1. t. 19. There are opposite parts in one and the same stone contrary to the rest: and it hath an example of sympathy and antipathy in it self; as Vipers. Scorpions and venemons Creatures have in themselves both their driends and their enemies. I shall fer down fome examples of ar traction. Severm Milevitabus faw, when Bushahattat , Werecofore governour of Africa, pur Silver under between the Stone and the Irons the Iron on the top moved; and the Silvet was in the middle, and Suffered nothing but with a most swift retrait, the Man trew the fronce downward, and the Rone decwithe Iron upward! And de civilat Dei lib. 21. cap. In the andrea In Egypt, at the toof of the Temple of Setapus, there was a Loadstone fastiled in, which held an idol that had an Iron in the head to fall, that it hung between the roof and the ground; Eufeb in Hiftor Bedef, Agriedla faid, he faw a round look. ing glasse, that was three hands breadth broad, and two high win the concave pary whereof there was a Load tone, included above (Agricola ele subterfan) that drew an Iton bout placed at the bottom of the glaffe unto it felf. To that the thick body of the glaffe could not hinder the force of it; the Iron Globe that ufeth to fall down, was carried up. Let us come to the cause, and inquite whence coines this force in the Loadstone. Each man speaks diversly, and so many men allmost so many opinions. Libav. l. 1. de Bituth, c, 12 faith that there is a bituminous nature in the Loadstone, reduced to the difposition of Iron, by a similitude of sympathy and mixture, whereby the same principles grow in Iron. And he adds, that there is an Iron bituminous spirit common to them both; but it flows not out continually, and as strong from Iron as from the Load stone; by reason of the diversity of coagulation or committed Others attribute that to the hidden forme: Others allenge a thintual fiarmony of naturall things. There are in the great world, faith Langius, 1. 2. Epift. ys, under the concave of the Moon, some things that by a secret consent agree wonderfully together. The truth is, the Loadstone is some kind of vein of Iron, and Iron may be generated of it : Senners. 1. 8. Epit.c. 4. Bue the Loadstolle loseth its attractive force sif you work it in the fire. For whileft's butne, the brimftony fpirit of it flyes forth, as Libav. 1. 2. fingul. thinks. We faw, faith Porta (Mag. natur. 1. 7.0. 7.) with great delight; the Loadstone buried in burning Coles, to cast forth a blew brimstony Iron kind of slame, which being dispersed, the quality of its life departed, and it lost its power to average. It yields to the injuries of the weather , and dies with old age. The expiring of it, is hindred by oyntments rub'd upon it, and the renacious juice of Leeks; others add, oyle of Bricks. Lem. 1.4.c. 10. de occult. But Cardanus I. 7. de subtil; denyeth this. It will not lay hold on rufty Iron, and much leffe on ruft, Scaliger Exerc. 112. Otherwise if Iron-filings were buried in dust, or the Iron be on the other fide of the Table, the spirit, as was said, is nor hindred.

Chilles the more it thines, like Iron, the harder it is in Milies of a Wallnut, so hards that laid on an anvil, they refift the frokes. Agricola faw one of Milfena, that weighed 14 pounds. | Galaffites at Hildesbam is dug forth of a Sand-pit, yearly it increasesh from a milky and stutinous juices to that some are found as big asones head; they say it makes Nurses sull of milk that drink it in powden with water or fweet wine. All Gin Is hard : In Saxony in the Land of Hildelbam, it is fe und like to Sugar's The Inhabitants of Herejnium, and Thuringum, burnchar which is hard and grind that which is burnt; and wetting it with water, they uleat for Lime: what colour foover it be, it growes white by burning, Lyfiftratus of Sygs, Brother to Lyfippin, was the first that made Mans picture with a face in Gyp, and then poured. Wax melted into that form, trying thereby to make it better. A wall was made of Gras in pieces of Afti-colour, at Northufig in Thuringia, and the Port of Algers, a Town of Mauritania Cefariensis. Selenites is a stone that is wontto be found at dark night when the Moon increaseth; and it represents the Moon by thining in the night, and it increaseth and diminisherh with it daily. It not onely shows your face, but it will represent the image of a thing behind your back. It endures the Suns heat and Winters cold, hut it cannot away with rain; for it will corrupt, if great pieces of it be exposed to rain. Amianthus is made of an appropriate juice; the fire is to far from polluting its luftre, that if it be cast in, it will thine the brighter, Once lighted, it never goes out, if oyl fail not, Henco it is called Afbestos; and because it is like to womens full hair, and to mens hoarinesse, it is called Bostrychitis; and Corfoides. we (am (faith Pliny) in banqueting places, papkins made of it. that when the filth was burnt out of them, were cleanfed more with fires than they rould have been with water. It was found at the fiege of Athens, that things anointed with it would not burn; under L. Sylla. This stone is kembed, spun and wove, though with difficulty, because it is short: and they make not onely Napkins, but Table-cloaths of inand Towels. Allo of old time they made the Funeral Coats for Kings. which were put upon them, when they were put into great fires to be burnt, that fo, the after of their bodies being parted from the woods afties, might be laid up in their Sepulchres. Pliny faith, ther this Linnen hath been found to equall the price of the best pearls; but now it is fold at mean rates.

CHÁP. XVII.

Of Stones that represent divers Forms.

Here are many stones representing divers forms. We will mention some here, namely, Trochites, Eutrochos, Enerinos, Enorchis, and others. Trochites, is like the round head of a pillar, the round part is smooth, but each broad part hath, as it were, a kind of conveyance, from whence are lines unto the extream part of the Circle. Put into yinegar, it raifeth bubbles, and some are found that move from place to place. Eutrochas is made of Trochites not yet separated: Whole Trochies have eminent lines; in that patr where two of them meet, there feems to be a girdle twifted round, within it. But the Trochite are so joyned, that the lines of the one enter into the furrowes of the other. Enerings, is like Lillies, for when one part with corners is parted from the other, both thew like five Lillies. Enora chis in the thards is like testicles. In the Diocesse of Trevers, when Cements are digged up to repair buildings, they meet with blackish Rones that represent the secrets of women, Diphyts by an intercurrent line represents the Genitals of both, Sexes. The Delyli of Ida, in Crete, of an iron colour, aro like a mans thumb. There is also a stond found like a new Moon, cloathed with Armour of a golden colours Happellites, reprefents the nature of a glaffe, and in the Sun it will fire dry matter. At Salfelda in Thuringia, there is a stone dug forth of a pio 20 fathom deep ; it is like a firm breaft; a foot and half, long, three hands breadth; on the former part where the ribs end, it is fix fingers thick, on the hinder part where the whirlbones are pierced through the middle, but three; the back-bone was, empty, where it should represent the marrow. The outside of this stone was either black, or fome rare colour, and the infide was like to the, Lapis Arabicus; It is supposed to be of great, vertue. Belemnites & is like an Arrow, with a large head, and a marp point; There, is in it a kind of tift, it is clothed with golden coloured lines, and it fhines naturally. like a Looking-glaffe; It fmells like filed or burnt, horn, if it be The Saxons name it by a name compounded of Ephialtes, and an

Arrow; and they fay, if one drink it, that it is good against fur, preffions, and fuch hags in the night. A A HED

Of last & loran in a lot of good lines.

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CHAP. XVIII.

Of the Eagle flone, Enhydros, the Touch-flone, and the Pumen fine.

He Eagle stone is found in divers Countries; In the Country of Mifenis, then especially, when great rains fall. It fmells like a Violet, by the Mosse sticking upon it. It bath in it little stones, that being loofe and shaken, make a noise: They commonly stick to Mifenus; some have earth with them, as at Hildesham, and some gold, as those of Cyprus. That which hath a little flone in its belly, as the Greeks fay, it it be bound to the left arm of a woman great with Child, through which an Artery runs from the Heart, toward the ring-finger, next to the little finger, it will hold the Child in the womb that is ready to miscarry's bound to the left thigh of one in labour, it will fo help her, that the shall be delivered without pain. but so soon as the is delivered, it must be taken off, that the Matrix follow not. As it fell out with the Wife of a Citizen of Valencia, Francis. valeriola I. i. observ. 10. It helped her, tyed on, to be delig vered; but not taken away, it was her death.

Bubydros hath water within it; It is perfectly round, it is white and smooth, but it flotes when it is shaken. There is liquour in it like as in an Egg. Alfo liquid Bitumen, sometimes that smells sweet,

is found in stones that up as in vessels.

The Touch-flone is that flone they prove gold by : In Theophraftin's dayes they were onely found in Tmolin; but at this day in the Rivers of Hildelbam, and Gosselar. The parts of them that are found looking toward the Sun, are the best for tryall; the worst look toward, the Earth, those are the dryest: but these are hindred by their moviture that they cannot take the colour of gold or filver.

The Pames flone is found in places that have been burnt, baked out of the carth, or stone : because it hath holes, in which the light aye flotes; and because it is without moyllure, it burns not. They that have charge of Wines put it into a veffel of boyling new Wine, and it presently gives off boyling. Drunkards that firive for mastery in drinking, arm themselves with the powder of it; but unlesse they drink abundantly, they are in danger, saith Theophrastus.

CHAP. XIX.

Of Lapis Vitrarius and Specularis.

Fig Here are three kinds of stones that will run in a burning furnace. A. The one is like to transparent Jewels. It hath their colour, but is not so hard. Of this kind is Alabandicus, which melts in the fire, and is melted for glasse; The second kind is not much unlike it, but hath not so many colours, the third kind is lapis Vitrarius. This hath Chaping. Of Lapa Vitrarius &c:

its proper Veins also. At Annebergum, in a Silver Mine it was found in the forme of a Croffe; at Pribery like to an Ape; pieces of it are found allo out of the Earth; but by the running of the waters, they are polified by rubbing against some slones of their own, or of some other kind. The white stone is burnt, beaten to powder learled; of that they make fand, of thefe they blow glaffes. The River Belugar the foot of the Mount Carnfel ; riffing in Phonetia, between the Color ney of Piolemais and the City Tyre, brings those kind of Sands sie for glaffe to the Sea fide, which being tumbled with the Waves of the Sea, thing, their founds being wathed off. Plin. 1, 6.c. 26. The report is that a hip came loaded with Nitre; the Merchants provide ed their Victualls as they were dispersed here and there on the Sea More, and when they found no stones to make them Tables of , thele took fire, and the Sea More fand 'mingled' with them; thence thole transparent Rivers of this noble liquor began to run; antiquis was the beginning of Glaffe. Bift We must flor think that Glaffe is made of this Sand only, To three parts of that they add one part of Nine and of these melted contest Antine mittel. If Nitre be wanting mineral falt will hipply the defect. If this, then either Sea falt, or the Ashes of the hearth Anthyllis burnt. But when that the matter of glasse melts in the sire, it froths, and the froth is taken off with a drag: when they are forthwith list died; they are made into white loafs, in which there is a mixt talk more falt than bitter. Men report that in Tiberin's days, there was a way invented to make glaffe mallcable, and that his whole hop was ruin'd, that the price of Gold Silver, Braffe and other meteles should not be brought down; but the fame of it is more constant than certain. In our time refoecially at Venice, is glaffe of high effectiff we have feen tome that have framed divers works of it; as bright as a Candle. When were raigned by the art of making glade? was found our to make iniall Cups with two cars, they called them Pinhatt or Pterora : One of them was fold for 6000 Denarit. I referre the lapides speculares to theso, because they were of a bright substance, as baffing writes, it was transparent like the Ayre. The Ahtiests used it for Windows, as we do glasso, were made a Temple for Fortune of these stones, so that wholoever food without was lech though the dotes were thut, the light appeared though not leht through Pancivolla, I. r. de weter, depend,

it have a fearingular terming bedding inflation indicate carring in esmall exceptions of an extra the colored Miller Rainels were not except and is over a court in a thice Dimmond is found in easily better. The Antient Gark und offe, ban av thirfry ener be bre in by ligh ment, maintain and obtain he ap the Loadlong; and in this face that it will the ser wence agon . Those of our days have hardring cor trary, cameramonered, siether & oted 3. 111 1

Of Crystal, Iris, and the Diamond.

Oncerning the Original of Crystall, writers differ. Pliny, 1 37. 10.2, faith, that it is made by the most violent frost from Snow or. Ice. Agricola, 1. 6. follill. faith, it is some sap congealed by cold in the howels of the Earth. The former opinion feems to be true. For not only the name confirms it, but the place allo where it is bred, for it is found in those placeswhere the Winter Snows are, in such unaccessible places of the Alps, that oft times they are fain to belet down with ropes to draw it to them. In Asia and cyprus it is Plow'd up, and carried along with the torrents. Scalig. exele. 119. From the Percinian Rocks, which are in the extreame parts of Norically, it is pulled off from the tops of Mountaines there, that are covered with no earth. Somtimes there is a kind of coorse silver in it; of the colour of lead Ore, and of divers weights. In India it is found so great that they make a Vessel of it soutimes that will hold four Sextaryes. Livia Augista dedicated one in the Capitol, that made a Vessell that held 50, pounds. They are Toldon found fingle, many of them oft times flick upon one roof, fontimes rifing together; and fontimes a part. They lye fontimes fo fast, that it is a hard matter to pul them off. Every Crystall point, and the whole body, of it, is with prangles, treather be included by hear of the Sup. The extreame cold hath to frozen it, that it is not a small thing can melt it, yet can it not endure heat, Bodin: ! 2. Theatr Natur. ... For in the hottest firinges and great flatines, 'it will run by continuance; being melted, it will harden again; and it you poure hot liquousing a Chysial cup, it will break. It is thought, worn about one, to cure the Vertigo; and for that calife's predicting out of Venice Glattes, plater, I. i. de. lef. There are made of it, both Glaffes and Chamber pois, such a one as pliny Writes was bough by a Matron that was not very tich, for it. S. E. M. about as one of fellering Rangingla had one of for pure matter, and to train parent, that it feened almost to be aying the outsides only being opposed to region. It had an adder in it, will oben inbut the dy to devoure a young Lamb, but he was hindred by the belonded. Croffe. Pancirol de veter, deperd, l. 1. Alfo Iris is a white Jewelliff it have a fexangular forme, held against the Sun beams entring in at the Windows, it casts the colours of the Rain-bow on the wallthat is over against it. The Diamond is found in many Mines. The Indian Diamond exceeds not the kernel of a small mit, that of Centhis is no bigger than a miller feed, Aericola 1. 6. de fossil. The Antients speak much of it, namely that it cannot be broken by hammers, that it takes all virtue from the Loadstone; and so resists fire, that it will never waxe hot. Those of our days have found the contrary. Camer, memorab, med.c. 8. M. 42. For a hammer will break

it, and an iron peftle will bring it to powder. It yields to fire, and may be calcined with a long continued flamo; yet though in an hour by the fire it will lose its lustre, it will recover it again by polishing with some defect in the luttre." It hath been found that rubbing one against the other, they have been so glew'd, that they could not casily be parted, Bodin. Theatr. Natur. l. 2. It hath been feen to draw ftrawes when it hath been hot, Garzias ab Horto 1.1. drom. c. 47: It was hitherto believed, that the powder of it drank, would breed the Dysentery; but that hath been disproved. Slaves have swallowed down some to hido their those; they sent them forth by stool, whole, without any hurt to their health. Cardan (2: Traft. 5. Contrad 9.) faith, That one dram weight drank in powder, did no more harm than a piece of Bread. The Turkil Emperour gave 30000 Crowns it ond:

of the Opalus, Emerald, Heliotrop, and Topaz

Palus is a Jewel, which when you hold it downward it hath, the clear fire of the Carbuncle, the thining nurple of the Amethylt the green Sea of the Emrald, and all things offe thining with an incredible mixture. An Emerald doth forchange the ayr about it with its own tincture, that it will yield neither to candles, Sun light, nor thade. Hence in the water it feems greater. Those that are not perfectly green, of them are made better by wind and oyl in They are feldom fo great, as that you may grave a feel upon them. Yet there is one not very small at Lyans in a Monasterys and that which, was icen at Prague in the Chappel of St. Venerland it is above 9, patts, of x 2, greater than that, Bodin. L.2, Theatry, There is one longer at Magdeburg, which is contained in part of the spire fashioned Cabines wherein the Hast is carried; some lay it was the handle of the knife of Otho the first. There was a lewel open found in Cyprus, the one half of it was an Emerald, and half a Jaffir The Emerald hath wonderful vertue; It is an Enemy to poyfons and bitings of venemous beafts; and it breaks, if they overcome it. It is faid, to further womens labour, tyed to the hips; and to hinder it, laid to the belly, Sennert. 1. 5. Epitom. Scient. naturalla . Shut in a ring, or hanged about the neck, if it touch the naked flesh, it preserves from the Apoplex, Plat. 1. 1. del f. It hath been known to break off from the fingers of the Master of it that wore it, when he was dead. It cannot condure venery; for if it rough olles body in the act, it will break albertus, the King of Hungary had one that brake at that time in 3. pieces. Heliotropium is a lewel marked with bloody veins call into a vellel of water, it changes the Sun beams falling on it by reflexion. into blood colour. Out of the water it receives the Sun, like a buthing Glaffe, and you may perceive the Bunk Holiples by le, how the

Moon moves under. A Topaz is not onely transparent, but also shines wonderfully; and the brightnesse goes forth like gold; it is greater than other lewels; for thence it was, that a Statue was made for Arsinoa Wife to Ptolomaus, Philadelphia, of 4 cubits high, and was confecrated in the Temple that was call'd the golden Temple.

CHAP. XXII.

of the Amethyst, Hyacinth, the Sardonix, and the Onychite.

TT is called an Amethyl, because it comes near the colour of wine. and before it comes to it, it ends in a Violet colour, Plin. 1,2 1, c.8. Laid to the Navel, first it drawes the vapours of Wine to it self, and then is discussed them; wherefore it keeps him sober that wears it, Aristotle. The Hyacinth in clear weather shines the brighter; in clowdy weather the darker. By its fast cold, it condenses, and refreshes bodies, and preserves one that wears it, from the sierce pestilence. Sardonix is a Jewel compounded of a Sardonius and an Onyx. It shews inverted like a nayl of a mans hand: the most generous roots are from a certain blackish ground, and first represent Onywes, then they are compassed with a reddish circle, from thence a round line goes about them, then at a greater distance the circle growes larger; lastly, to all those girdles another kind of basis is placed under them. The Gracians made great account of this lewel. Polycrates the King of Samos effected it so highly, that when as fortune had alwaies favout'd him, that he might try the contrary fortune, he cast his ring into the Sea, wherein this stone was fer. An Onychites at Colonia, in the Temple of the 3. Kings is broader than ones hand, Agricola. The milky veins of it forum forth, that they represent two young mens heads; the black veins fo, that they represent a Serpent descending from the forehead of the lower head, and a black-Moors head with a blackbeard: Burthat was placed upon the mandible of the white head. Two Onyxes rubbed under a Table, will fo burn, that you cannot hold them in your hands.

CHAP. XXIII.

Of the Jasper, Nephritick flore, and an Agat.

Jasper bound to the thigh, will stop the menstrual flux of blood, and all bleedings, which admit of no help otherwise. It stops bleeding at the Nofe, being hanged about the Neck, Sennert, 1. 5. Epitom. Scient, natural. Bound to the mouth of the stomach, and to carried all day for the Falling-sicknesse; if sweat follow, it frees from the fit, or elfe the fick fall, Baccius de gem. Pliny faith, he faw one

of eleven punces, and of that was made the picture of Nero an lart mour, Plin. 1.37. c.9. There is found in Silis one of a blew colours that goes 9 foot deep, and then comes a dark fandy stone, about 12. foot long, that hath no Jasper in it, Agricolal. 6. de Fossil. From the authority of Thatilis the Jew, There are found some strange kinds of it. There was a man feen in one, that had a Buckler on his neck, a Spear in his hand, a Scrpent under his feet; It had vertue against all enemies: In another, there was a man with a bundle on his neck. It had vertue to discover all diseases, and to stop blood, Lemnius de gemmis Biblicis. The report is, that Galen wore it on his finger. There is a green one found figued with the croffe, good to keep one from drowning. The Nephritick stone is referred to the Jusper, it is found onely in Hispaniola, Sennert. 1.7. Inft. 1.5. p. t. S. 1. c. 17. 'The superficies of it is alwayes fat, as if it were anointed with oyl. The Spaniards wear them cut in divers forms. Many things confirm the wonderfull vertue of it, Unzer. de Nephritid. l. 1. e. 7. Hanged about the neck, fo breaks the stones, that they will feek for passage out of the body at both the Eyes, and where they can find way. A certain Merchant of Lipfick testifierh this, who had fuch things happened to him; and both his eyes grew red, by the falt and sharpnesse of the same. It will cute all distillations that fall from the head on the Chest, saith the same Merchants Wife. For when the had carried one 3 weeks, the was cured; but the Physitians could not cure her. It will cause one to make water that is stopt, as we find in the same place; but this is singular, that born about one awhile, it will cause a great tickling; yet it cealeth in 2. or 3. days space; but it rothers, if it be applyed again. Alfo it causeth hollow places under the skin; which if you break, then they fend forth a very great quantity of fand. It is prepared by a fingular and fecret art, and one dram and a half for a dofe of it fo prepared, is given in Parfley and Juniper water: But the gravel doth hurt, if it find the stomach full. Libavius 1. Synt. Art, Chym. L. 1. v. 14; doubts of it, whether it doth thefe things by its own force, or anothers. His words are; Sometimes it happens, that nature is stimulated, by meer perswasion and belief, from some conception of the mind, which we ascribe to the Object, the Fancy moving first by that. But the efficacy is not alike in all, nor is their affent and belief alike, unleffe you would fay, that not onely the Patient is troubled with the gravell, but he must be of fuch a disposition alfo, as may admit the force of that flone. And it is found; that the Nephritick stone is unessectual to many. An Agat out of a River of Sicilia, fath its name from it. Veins and spots do so run up and down in it, that fometime it represents a Turtle; sometimes a horn; sometimes one finall Tree, 2, 3, or 4; appearing like a Wood. Capillus of Pifitura, faw once one that had as it were 7. Trees in a Plain. It we Agat of King Pyrrhus there were the 9. Muses naturally with and the Mules had their several badges. That which is of offer col lour, being boyled in an earthen por full of byl with feveral paints and in two hours being made foniewhat hot will make olde colling the

red Lead out of them all, Dalechamp in Plin. 1.37. Agricola 1. v. Fosil. Plin. 1.37. c.1.

CHAP. XXIV.

Of the Ruby, the Carchedonius, Sandastrus, Chrysolite, and fome others.

Rubie is of an exceeding red colour; Sometime it is fo great, that vessels are made of it, containing a Sextarius. A Carchedomius is so called, because it was found amongst the Garamantes and Nasamones, amongst the gravel, and was brought to Carthage. It is otherwise called a Granate. It is said, that when they sealed, though in the shade, the wax would melt, Archelaus. It will not burn in the fire. Sandastrus hath red with a golden colour, golden spots shine within, as Stars in a transparent body; the more they are, the more costly is the lewel. But because commonly it is marked with the 5. Stars called Hyades, both in their number and disposition, the Chal. deans were superstitious about it. The Chrysolite differs in the plurality of its Stars. Bochus writes, he faw a Spanish one of 12 pounds weight. Agricola saw a clod dug out of the Mines in Germany, that was made of more than 60 Chrysolites, all of them sour square. The greatest was an inch broad, and 2 fingers in length, it was too fost to polish: Afyllos, made hot in the fire, contains the heat for 7 dayes; it is black and ponderous with red veins diftinguishing it. Calcophnes is black, but struck upon, it sounds like brasse; it is said to be good for Tragedians to carry with them. Catochites is a stone of Corsica, wonderful, if report be true; it holds, your hand laid upon it, like Gum. The Medes fend Gasidanes, it growes in Arbelis. They say it conceives, and being shaken, you may hear the noise of the Infant; it conceives in 3. moneths space.

CHAP. XXV.

Of Jewels found in the bodies of living Creatures.

Artic. x. Of the Draconite, the Chelonia, the Cock stone and Toadstone.

Any Jewels are found in the bodies of living Creatures. I will a living only fet down some. For too reckon them all is to much for an Epitomist. Draconies of Dracontia is made out of Dragons brains, but unlesse you cut it out whilst they are alive, it will never grow hard, by reason of the malice of the Creature, finding it self ready to dye. Therefore Men cut them out when they are asseep. Sotacus, who write

tharche law that Jewel with a King , faith, that those that feel it; ride in Chariots, and when they fpy the Dragon they featter fleepy medicaments, and fo they come to cut it out! Plin. 1. 37. 6. 10. They are transparent white, and admit of no art to polish them. Cinedia are found in the brain of a fifth of the fame name ; they are white and somwhat long and wonderfull in effects, if it be so as men write. They forethew the face of the Sea, by their troubled or peaceable colour. Chelonia is the eye of an Indian Tortis, most wonderfull by the invented lyes of Conjurers: for they promise; that if you lay it upon your tongue with liquid honey, it will foreshew future eyents at the full and new Moon for all day; but when the Moon decreaseta, before the Sun is up, at other times from one a Clock till fix. Moreover of Deaconitis, Philostratus writ; and ascribes to it as much vertue as Gyges ring had; Rhodig, c. 11.1.6. antiq. lettion, Alettovius is cut out of the gizard of a Cock with a Comb ; being included with a thin skin or membrane, 4, yeares after he hath befregeld ed; Lemn, de occult. It may, be it is congealed from the excrement of feed, by force of his imbred hear, as milk grows hard in the breafts. It procures Men favour, and makes them lufty. Toads produce a stone; with their own Image somtimes. It never grows but in those that are very old. Libav. 1. 3. fingul. In the family of Lemnius allere is one kept that is greater then a Hazel nut. Lemnius de occult. 1, 21 c. 30. It is proved to diffolve tumours that rife from bitings of venomous beafts, if you rub it on often. The Lapis Buforius, called Gvareriano, the Swedes Chronicles write of it, it weighed 5, Physicall' pounds, and 3, Ounces, 2, drams leffe; Crafius annat, Sueviel 1772. P. 3.c. 37. The words are thefe. After the joyfull birth offour Lord Tofus Christ, of the Virgin Asary, the mother of God. Anno, 1473; after the birth of St. John, the 27 of June', Berchiholdus Gratterus dwelling then at Hopftach, in the afternoon went into a wood; which they call the Vale of Dipachia, to cut poles to make hoops for Veffells. In that place he heart d hiffing and a great noise by a River in that Valley, and when he flood a farr off to fee what the matter was, he faw an incredible heap of Serpents and yipers, and Tonds lying twined together. As nere as he could conjecture, it was a greater quantity than a great washing Tub could contain. He was frighted and durst go no neerer, yet he cut a bough ; and marked the place there in the confines; that day he came twice back, and beheld that conventicle of Serpents, and he found them all, allmost together upon aheap; wherefore he left them and went home ; concealing the matter for three dayes? when he returned to the wood, he found that thefe water Inakes were goh, and none of these venemous Creatures were left, but only one Toad that was killed, and a Snake in a white glutenous humoir, and thick; flining like to frog-Spawn , and neere to it , that Toadstone Bufonius, which he catcht up ? and wipedit, and carried it with him home, keeping it for forme farther profit. But after that Gratterus came into the Town (about a 100 yeares fince) the stone was used successully, for Man and Beast, as it followes. The eldest. Sonne of the house of Gratterians keeps this Toudstone, and he will not lend it especially to strangers, under a paint of 50, or a 100', Livers: Amongst

Amongst the other vertues it is observed that it hath very great force against malignant tumours, that are Venemous, Cholerick or Erisipelas, Apostems, and Bubos; and for Cattel that are bewitched. They are used to heat it in a bag, and to lay it hor without any thing between to the naked body, and to rub the affected place with it. They fay it prevails against Inchantments of Witches, especially for great bellied Women and Children bewitched. So foon as you apply it to one bewitched, it sycats many drops. In the Plague it is laid to the heart to strengthen it. It draws Poyson out of the heart, and out of Carbuncles and Pestilent fores. It consumes, distipates and foftens all hardnesse. Tumours, and Varices.

Artic. 2. Of the Stones Chelidonium, Crabs eyes , Snail Stones, and

Y Helidonius is so called as if it came from Swallows; Yet it is formed of a yellow Gold coloured lasper. Bound to the right arme, it is good against fantastick thoughts, from melancholy: It cures such as are Lunatick and mad, and hath a peculiar vertue against diseases of the eyes, Plater. Also in the heads of River Crabs, there are stones which steeped in most sharp Vinegar, they will scem to move. Quercet, in dial. s. 2, 2, 7. With their powder to half a dram in White Wine, the Stones of the Kidneys archappily driven out. Henric, a Bra, de calc. The Snail-Stone, pub under the tongue, harh a great force to cause salivation. It makes the tongue moyst, and the humour fluent, and stenel oth thirst, and represent heat. Bound on, it helps Children to breed teeth, Plin. 1, 30, 6.5. A water Snake casts up by vomit, a stone into the water under her, if you bind a cord to her tayle. Holler, l. 1, de morb, inter. c. 39. This hath such force to consume water, that it presently drinks it up. VVherefore, laid to the belly of an hydropick person, it consumes the water by degrees, Plater, I. de vita. The Bezar Stone is found in the Stomack of a bee Goat (rather of a free Goat) in the Indian Mountaines. Sennert 1. 5. Epitom, scient. natural. c. 4. Somthing which hath a kind of batk, and is as I may fo fay, Chamford. (faith Sennertin) proceeds from a small beginning, that is oft times, firaw, to which fome moisture sticks like glew, and hence it is that. that stone is made up as it were of many thin plates. It is great in an old, leffe in a young flice Goat; and all those plates both inward and outward are smooth and shining. Rasis by experiment commends it against all Venome. Not only drank saith Mathiol. on Diascorid, 1. 5.6. 75, but also bound on, so that, it may touch the naked skin of the left fide, it excells all other things. Abdelnarchus adds: farther, The flone, they call Bezoar, we have now feen, with the Sons of Almiranta keeper of the Law of God : for which flone at Carduba hee , at the bea ginning of the warrs, parted with a magnificent, and allmost Kings Palace. Some fay, that the Bezar Rone is nothing but the Tears of the Stag; for they fay, that the old ones, overgrown with Age, do car Serpents,

and grow young again and for to conquer the venom, they drench themselves in a River, onely their head forth; and, as they stay so, a clammy humour falls from their eyes; and being congealed by the . Suns heat, it becomes a Stone there. It is like an Acorn, and being fallen from their cycs, it is gathered up by fuch as attend for it. Yet they are thought to be divers, Scalig. Exerc. 112. writes thus concerning the Stags tears, which he held to be the dearest thing to him . in his Treasure of the Muses; Before 100 years a Stag hath none; after that age it growes at the corner of the eye, and thrusting forth like a bone, it growes harder than born. The prominent part is round, very hining of a gold yellow colour, with prints of other veins. It is fo fmooth, that you can Scarce feel it; and it so drawes it self away, that it even scems to move. It is an excellent remedy against possons. To those infested with the Plague, it is given with a little wine, and they will sweat so, as if their whole body would melt. Thus far Scaliger. He that would be fully instructed, let him read Bauhinus of the Bezar Rone.

Of Gold.

Chap.26.

CHAP. XXVI.

Of Gold.

Eira Gold This form thus far. Now follow Metals. V First, Gold: This is found in its proper vein, and in stones that are of thining white; also in the true Pyrite, and sometimes in stones of iron. In spain some pieces have been found weighing above ten pound weight. It is plough'd up in Galitia, Justin. 1.44. Dubeavius writes, that in the Mountains of the Gelovienses, a masse of ten pounds was taken out of a Rock; and he faith, it was presented to King Wencestaus. In India the Pilmires (which in Egypt are as great as Wolves) do carry it and keep it. In the Islands of the Sea of Athiopia, the plenty of it is fo great, that the Inhabitants have barter'd a Talent for horses, plin. 1.6. c. 36. This one thing loseth nothing by fire, but the more it burns, it growes the better. Yet the juyce of Lemmons will abate from its weight, Lemnius occult. 1, 2. c. 36. and if hens limbs be mingled with melted gold, they confume it, Plin. 1.29. c.4. The heat of living Creatures may work upon it, as wendler witnesseth in Prognostic. Anni 1619. A Schator of Gorlicum had a fat Hen, the had eaten about 4. books of leaf-gold bearen out with the hammer. When the was killed, it was found pure within her. In her breaft 3. golden ftreaks were feen, fome Artificer was thought to have drawn them, Schnitzerin Epiffel. 56, writes, that it the fromach of another, that was killed, forme moneys were tound half confirmed. To this adde what Zacharias à Pateo affirms in his Clavis Medica Spagyrica, alld Chirurgica when, faith ho, I fludied at Padua, it happened, that one of our Hens, flew upon the Table, there were upon it fome ornaments for women : amongst the rest a precious pearl, which hung to an ear Jewel curiously made by an Artisteer, and it had some golden covers.

811

drawn about it, the Hen swallowed this pearl with the ear-jewel; when, 4. or 5. hours were past, the Pearl and Jewel were mist. A certain Maid thought the Hen had swallowed it; because some dayes before the faid Hen had swallowed one, the Italians call Gazetta. wherefore, the hen was killed, and presently her Gisard being parted and cut, we found the pearel with the earing not yet paffed into the cavity of the flomach, but contained in the orifice thereof; extream hot, and yielding to the touch like wax, and the ornaments of it almost consumed by the heat thereof, which Jewel in a short space, when it grew cold, and the heat was gon, became hard, as it was before; the forme was spoiled, and when it was weighed with another caring like it, it wanted a third part in weight. But to return to Gold. No Mettal is drawn out further, or can be more divided: for one ounce of it will be hammer'd into 750 and more leaves, of 4. fingers broad and long, Plin. 1.33. c.3. That it may be wire-drawn, and spun without filk, Inced not approve of; The Luxury of the Age is well known. Pling lived, when Agrippina, as Claudiu, made a shew of a Sca sight, face by him, clothed in a robe of woven gold, without any other addition. Now though it confumes not in the fire, yet it is refolved Chymically, and becomes so aerial, that if it be but stirred with an iron Spatula, or grow hor any other way, it will presently take fire and make a great noise; and one scruple of it shall work more forcibly than half a pound of Gun-powder, Crollius cited by Sennert. c. 18. de Confenf. et diffenf . Chymicor. A few grains of it if they flye down perpendicularly, can strike through a Table of wood, Quercetan. The cause is, the contrariety of the spirit of Nitte, and the brimstone of gold : for when as oyl or falt of Tartar is poured into the folution of gold, the falt of Tartar unites it felf with common falt, and also with Allum, and Ammoniac; and hence it is, that gold left to it felf finks to the bottom; and if any of these salts is lest with the gold, it is washed off with hot water, Sennertus de confenf. et di genf. Chymic, et Galen. c. 19. onely the spirit of Nitre is lest, which perfectly unites with the Gold. If that therefore grow hot, fo foon as it perceives that the Sulphur of gold is there present, it opposeth it sell against its Enemy, and breaks forth with a mighty noise, in flame. It hath been long disputed, whether it can be made potable; experience shews that it may. For that famous man Dr. Francis Antony, Physitian of London, brought it into a confisence like honey, and sent certain portions of it to the Physicians of Germany to try it, Johan. Vincent. Finckius in Enchividio degmatico Hermetico.

Yet Heden. l. 1. Aph. 24, thinks it hath no nutritive faculty, because between potable and solid Gold, there is no difference but the liquefaction; and if a man cannot be nourished by the pure Elements he can hardly be fed with things inanimate and distilled: Also it may be made, nay it was made. Kelleius an English man converted one pound of quick-Silver with one drop of a liquor of a deep red colour, into Gold, that with one grain, he tainted 5000, and with one he extracted about ten Ounces of pure Gold, Sennert. de confens et diff. cap. 24 And what Theophrasius did, is known out of Neander; it is known

known out of Oporinus, Neander in Geographia, Oporinus in Epifolis. Nicolaus Mirandulanus, made an Ingot of Gold out of Braffe, he did it also at Jerusalem, and there are so many witnesses, that it were impudence to deny it. Picus Mirandula Apollinaris did aver fincerely that he had above 20 ways to make Gold. Hence was made that Epitaph at Rome, To the collector of Gold out of Lead. Some think they may be changed in shape but not in substance, I see not what hinders. The forme of Lead is not turned into Gold; but, that departing, this fucceeds. Where there is community of matter, there must be symbolization of necessity. Plants have a perfect form in their kind, yet are they turned into Chylus, and it is no fophistication; The forms of things are unknown to us, we know them but by their properties : and, when as they all inhere in that, what place is there for doubting & Yet that is difficult, and to be attempted warily. Penotas was an excellent Chymift; learned men know how miferably he was deceived in his old age. His words were, If there were any man whom he could not hart by open violence, he would persmade him to turn Chymist. Sennert, lib. cit. It is known to all Men, that divers works are made out of Gold. Heliogabalus unloaded his belly in Golden Veffells. Xerxes had a Golden Tree, under which he was wont to fit. A King of Ægypt buried his daughter in a Coat of Coffin. Agricolain observ. Meidl. In lower Germany, on Danubius, there were Vines that had tendrels and fomtimes white leaves of pure Gold, Alexander. The cause is affigned, That (there) are Gold Mines, and that Gold grows about their roots, and being bred with it, and hardned by a feeret Original, whilst Vines send out their branches, by a wonderfull work of nature or decree of the Starrs, the Gold grows our with them. Alexander ab Alexandro, 1. 4. Genial. dier.

CHAP. XXVII.

of silver. I see the real of the silver. The Silver is dug up in many places, but especially out of two places in Germany. So much was dug forth of the Mine at Sue! berg, that it was worth 1000000 Rhenish Nobles. That of Aberikam afforded 150000 Nobles. About fome hundreds of yeares fince; the Mine at Friberg yeelded enough to buy all the Kingdom of Bohemia! Agricola in prafat. in decemfossil libros ad Henricum Principem Mifends Wherefore Prince Henry, ne ere Northufa fet a great Tree of Silver, that he might bestow some of the leave of it, (which were partly Silver and partly Gold) on those Noble Men that had gallantly difcharged themselves in fighting on horsback. Sometimes great lumps are dug forth. In the time of Albertus the Saxon, the pieces were fo great, that he used them in the Mines for a Table, saying; "Frederick the Emperour is powerfull and rich , yet he hath not as this time full a Table: In the Valley Joachim, they report that there was a Lump'dug fofth

that weighed ten Attick Talents. Nature makes it of many fathions; sometimes like Trees sometimes like hairs. It is white yet some hath been found green. Put rude suddenly into the fire, it will leap forth: When black Lead is mingled with it, it is melted in a great veffel, and part is turned into Lead ore, part into Lytharg: but when it burns long, it loseth something, sharp things corrode it; Divers works are made of it. Amongst the Tellosages there are made filver. Mills. An Historian writes, that the Buckler of Barchinus Aldrubal weighed 138 pounds. The History of the Passion was made in pure filver; fo were Hercules's 12 labours, brought to King Ferdinand. To Charles the Emperour a Pillar made of filver. Cortesius himself, brought it from Mexico. The price was 49000 Crowns, Maiolin de, metallis. I faw Diana with a Stag and Hounds made of filver, with a Dial on the back-part, and there were many kinds of Infects about it cast very exactly. That it stood upon, was like a Table with many, wheels. It ran, and their heads feemed to shake as they were turned back. India is chiefly fruitfull of filver. The Mines of Potofium are known. Geographers will direct you, Bertius in Geograph. Also the Treasures of Spain are known. They that are acquainted with it, have written, that 9 times a hundred 45 millions of Crowns have been brought thence, Boterm in Hispan, descript. If there be a fifth part of filver to five of gold, it makes EleBrum; of which formerly they made Califes, because it would discover venom. For bows like the Rainbows will, run up and down in these cups with a fiery crash-, ing, and so foreshew it two wayes. By the light it is clearer than filver, Plin, 1.33; 6.4 in ...

CHAP. XXVIII.

of Quickfilver.

TT is found pure in the Trenches, when Cenoble is washed with M. waters dropping from the veins; for fo it is collected and turned into Quickfilver. The fame dryed turns again to be like Vermilion; very plentiful Fountains run in the veins of it, and the graffe growes very green upon it, Vitravius 1.8. c.3. For they that search for the veins of it, in a clear morning in May, they observe the clowds comming forth of the Tops of the Mountains, and hanging like wooll upon the graffe. It hath a marvellous fympathy with gold, Plater. 1. 2. del. f. 63. If it be in the body; it is drawn forth by drinking of gold. Silver cannot be gilded without Mercury. It is a wonder, that if one, be anointed for the French Pox, tet him have a gold ring in his mouth, and with his tongue roll it up and down, the Quickfilver in the body, falls to the ring, it is taken out like filver, it is recovered by putting it. ipto the fire, Lemnius 1,2. de occult, e.35. When all other things fwim, upon it, onely Gold finks into it. It fo flyes the fire, that it it cannot go downward, it will fly upwards: and being flut in, it breaks Chapie of Braffe and Alchimy.

ene cover, unzer t. de Mert. c. 1 it Putanto a ring, and put some fire, it makes it leab. Bread methe Oven Pease in the Pot Eggs attiffe fire if they be couched with a drop of it, will make men laugh by their dancing. The fire will make it fly into a vaporous fmoke, but it is not difficated. For received and kepning veffel, in fortly regards to Quickfilver again, and tofeth nothing of its weight. Powred on a a plain body; it moy lineth not, and therefore men think it is dry. That is falle; for hature makes it round, and it is hindred from this King by the lend Ore that furrounds it, Palm. Confant. do morb: Contad. 1. 31 cia. Italwayes moves. The terrestrial part is excellently well concolled, the ayr and foirits are the cause of it, for they are so shuking that they cannot geribith; because they firive to der ourse they are moved, Marc. 1.4. over The use of it, is divers. The Moors, when divers all things are burnt by the heat of the Sun, pour that into a Veffels and calling a skin upon it; they lye down upon that and cool them? felves : Put into the ear, and fo into the brain, it caufeth fur Fallings. ficknesse. For it dissipates the animal spirits, Hearn. de cap: aff ; c. Water wherein some Quicksilver hath been insused, if it be strained and drank, wonderfully drives forth Worms. Midwives when we men have been long in Ighour, for the last remedy give thenra frupte of Quickfilver. Put into a hazel nut shell by a hole, and for high in, and tyed about ones neck with a red filk, it preserves one from the Plague, Quercer 1, 2. peft. alex. 5. There have been formeny experiments of it, that we must needs commend it before other remen dies. If it hang down to touch the belly, it is fingular against the Cholick, Plater. de dol. c. 13.

CHAP. XXIX.

Of Braffe and Alchimy. Pure Braffe is found both in its own Mines, and amongst silver.
Mines. The lumps are dug forth of divers fashions, ake led fickles, globes, rods. In shops where they separate brasse from silvers it is yellow and red, which they call regular y duskiff red they call Cauldrons mettle, Agric, in lib. Fosil. That is fofter, and may be dilated and not melted onely; this will melt, but not be trawn: with the tincture of Cadmia it will look like gold, and alled alchymy. It melts and runs in the fire, but in a great crucible it will not endure the force of the fire, nor yet put alternation with things there purge filver and gold, but will be confumed wholly. It will be corrupt, and keeps other things from corruption. Hence faith 102 race. (A Monument more lasting than braffe) and therefore the Egypt tians seem to have put plates of brasse into the Carcases of dead box dies. Pierius in Hieroglyph. tellifies, that they were wont to flick Sharp Spears of Braffe into dead bodies. Camerar honsfubrif. cent. 12 2: 14. faw firch Images at Venice with Lawredaws. The fon of Lawred. danus

122

dants affirmed, that they were taken out of the bodies of men that were embalmed. There are divers works made of Braffe! The hundred gates of Bubylomare celebrated in records; and that brasen cub of 900 Gallons which the Lacedemonians gave to Crofus. At Florente the Chappel of St. John Baptift, which they call the Font, hath three brazen doors gilded. The Coloffus of Rhodes was made of the fame meral, it was 76 cubits high? Fifty years after it was thrown down by an Earthquake, and lay many years for a miracle, Plin. 1.34. c.76 Few could fathom the thumb of it, the fingers were longer than most Statues. Vast Caves were feen when the limbs were broken. There were within it mighty great stones: by the weight of them helfile made itmade it fland falt. They fay it was 12 years making of 200 Talents. It was one of the Seven Wonders of the World. CHAP. XXX.

Ead is of 3, forts, white, ash-coloured, and black. The first 18. nor found of its own colour, but the stones are whitish of which it is made for Cerufs is made of it corroded by the steam of vineger The ath coloured is dug up at Sneberg. When filver is boyled out of it; the fire confirmes it all. Of the black are made finare veffels, in which falt is boyled from falt water, from nitrous water, Nitre, Agh col. in observat. These filled with liquor, and fee in the Ayr, fore? shew rain, if there be drops on the outside. There is nothing hower than it, yet if you anoint your hands with the juice of Mallowes or Mercury, you may wash your hands in melted lead, so you do it quickly with fivile motion, Lemnius 1, 2, de occult. 634. It is heavier than filver, yet will fivem upon it being meted. It may be, the volatil parts of evaporating Lead fly away by the fire; but the file ver not evaporating finks down, Libavius 1.2. Epift. Chym. Ep. 98 11 is faid to increase in weight and magnitude, if it be hid in Callars, where the Ayr is troubled, so that what is put there, presently gathers ruft. The Leader bands of Statues that bind their feet are forbelinies found to grow, and to swell sometimes so much, that they will thang like Crystal out of the stones. Experience hath proved it to be unfit for Medicamene, Fernel, lib. de lue Vener, c. 7. For when as one by the advice of an Emperick, had eaten half a pound of the powder of it with his meat in 15 dayes, to cure the joynt Gout, those things that were taken in, had a nidorous tafte of Lead, and what was voided by stool, looked of Lead colour. Yet it is found also to be for external medicinal use. For it cools. Wherefore both Mortars and Pessels are wont to be made of it, in which if Liquors are beaten, what comes by the mixture of both is very cooling. The plates are good to lay to the loyns over-heat with venery, and against noclurial poll Intions in dreaming, Calvus the Orator, did prevent luft therewith,

that he might preserve his strongth for his study, Pliny, Musicians were wont to laythem upon their breakts to fing the lowder in indieds. Mero, had aplate of Lead to day, upon his break when he help to preserve, hisvoice, Suetonius in Negone. 10 12 1711 ota a fort fort received the sail that and the state of the sail to sail the sail of the sail

He Mine of Ironis the greatest of all Mettals. On that part of Cantabria which the Sea passeth by; there is a Mountain, high and cragged, it is incredible to speak it, it is all of Iron Ore; Plin. 1.34.6. 14.1 It is rare in India. Hencethey write that 14, pounds of Iron, at the Island of Zabun have been barrred for 230, pounds of Gold. Pegaffetta. It was formerly found in China, called Azzdam Indicum, of such an excellent temper in the edg that it would due any Iron, Pancirol, I. de novis repertis. Digged up in Sicilie, and Lufat tia, it grows again, and the earth and stocks of Trees, as it grows; become Iron. First it is like a thick liquor, and by degrees ingrows hard, Agricola in observat, metal. When it is boyled, it becomes moyle like water, afterwards it is broken into Spunges. The more render Iron infruments are fleeped in oyle to quench them, left they should grow too hard and brittle with water, Plinelibe citation and qualfor But in the Island Palmofa , it cannot be melted , & alfo in Mihalia; Strabo. 1. 15. Bertius in Descript Ilva. | Smeared with Alum and Wis neget it becomes like braffe, a Ar and niciam (in is la Town of who Mount Carpathum) water is drawn out of a pit, and it is powred into Pipes laidin a threefold order, and that pieces of Iron in them severil into braffe. Agricol de metal. But the pieco of Iron that is purioto the end of the Pipes, is eaten by this water, that it becomes like mud ; that afferwards boyled in a furnace ibecomes good Brafferii It is most agreeing with all Copper, that it will mingle with it in The Poets call these Mars and Venus in their Fables, Minder, de Vitriolo, c. 1. Aristonides, when he would expresse the ful ty of Athamas who would throw down headlong his Son Eledrchus and when he had don for the manner of his forrow; he mingled Braffe and Iron, that the ruft of it thining through the brighter Braffe, whighly expresse his shame and bashfullnesse, Plin. lib. citate Plunged fiery. hot in water, it becomes Steels in Vinegar, it will endurano hammering, but will fooner break than draw. Hence the Lacadonians who were wont to make their coynof Iron Rods's fleeped themited hor in Vinegar; that, being brittle, they might never be pur to any other file., Plutarch in Lycurge. If you leek a reason, we say that Vinegar goes into the heart of the Iron; Badin, h.z. Theatr's In Furnaces where they make it into bars, there rife fuch Vapours fromit, when it is hammerd, that a certain powder increaseth sensibly snand mulciplyos flicking to the walls. Albert carage in librile animal. Incis

124

to throng that it can never be conformed by fire. In the new World there is an herb called Cabuia or Hentqueny, of the Idays of its there is a reddiffystring, that with fand will cut Iron. Overan. Histor. 1. 7. 0.18. Iron scales are very drying, they put it in their shoos that have sweating feet. The best Iron is most white and light, and hath little branches, somtimes like to Corall, somtimes bound together with very fine strings. They make bullets of it, for great Guns.

OF Fossillation of the state of Ndress Libavins, a Man exceedingly deserving in Philosophy and Physick, faith, that it was reported on the tredit of the Jewenter Schroteroria, that at the rampire of Erfurd, by the port of St. Andrews, upon occasion of raising the Bulwark higher; that great pieces of raw flesh were dug out of ground, and that it was brawny; much like to Oxe-fleth, (only it had no bones): Hubnetus affirms this in Epiffol ad Libavium. But because those that dug it up praced that they could find it only upon Thursdays, wife men began to suspect the marter, and having discovered the fraud, the deceivers were cast into Pri-Ion. Though fraud here may be objected; yet it is not against reason to fay with Libavius, that there may be fulfil flesh. Most true it is that the Earth, (I add the water allo) is the Mother of some living Creatures, and of those imperfect ones that came by aquivocall generation; and by the mixture of both thefe, Clay may be made fit for the breeding of an animall principle, which fortimes becomes a perfect Greature, and fomtimes is deficient. As in the kinds of perfect Creat tures, fomtimes rude lumps, are bred, fomtimes provided with that supplies their defect. If that be first, and yet, helps being present; it is not frustrated of its motion; it is likely that a Mole of clotted blood or fomthing like flesh should be made; no otherwise than as matter disposed with it for a bone, becomes a bone, which is called Fossil Horn. So Histories relate that shell fish have been found in the top's of the highest Mountaines of fand, from Marle and Marble putrified: which though some think they are the reliques of the General flood, yet is innot probable, that they could last follong, by reason of the injury of time. For Marble it felf will at last diffolve. And if you think it abfurd that a Creature with blood thould proceed from matter that is without blood; I could by examples shew your absurdity. When Milus finks down, living Creatures are bred of the mud by heat of the Suns some perfect, some half perfect, Ricking to the Clods, Diodor, Sicul. A Venemous frog is bred deep within the Earth, where you can see no holes, when as the sutures of stones are broken with wedges, Agricola. Of the rayning of blood and flech there are many Histories, and that came nor by the Sun, drawing blood from Carkeifes, but by changing the humour fodifposed. In

a dirch of the Town Bewbelltern Beneath out of a VVillow, itinking blood ran. At Spira they fay it came forth of bread. At Suidnicium, a bloody Fleece of Snow fell down like hail. What shall I say more? The Chymists say that of Satyrium, great Comfrey, Tutsan, Bread and Wine, a juyce may be made that is perfectly blood, which by due digestions may be made into substantial flesh. Of Brimstone boyled in Linseed Oyle, they make a Masse like a Liver. Lastly the sowls in the Orcades are said to be fruits of Trees. You shall see it proved in the appendix of the fixth Classis. Wherefore we conclude with Libavius, that there may be Fossil Flesh; and with this discourse we will thut up this Classis. Setting aside those things that may be said concerning Devill in Mettalls, which we shall speak of in our Thaumatographia Pneumatica, which if God pleaseth, we intend to pub-

Of Fossil Flesh.

Chap. 32.

I add one thing that I had forgot. VVhen Henry the 2. King of France was at Bononia, there was brought to him from the East Indies by an unknown person, but, as it appeared by his gesture, a Barbarous fellow, a stone of a wonderfull shape and nature, for it shone with light and clearnesse exceedingly, and it seemed as if it were all on fire, and turn it which way you would, the lustre of it so enlightned the ayre with its beams, that they could hardly endure to look upon it: And this was strange in it, that it could endure no earth upon it, but if it were covered with it, it would break forth with violence of its own accord: no art of man could hold it in a narrow place, for it delighted in the spacious Ayre, it was exceedingly pure and bright, no filth was upon it, it had no certain figure, but was inconstant, and changed in a moment; and being to beautifull to behold, yet it was not safe to touch it, and those that deale roughly with it to hold it, felt the inconvenience as many that flod by can testify. If any part were broken off from it, by contending with it, for it was not very hard, yet the vertue of it was very ulefull for many things, and the Stranger faid it was needfull chiefly for Kings. He boasted much of the miracle, but resused to discover it, unlesse he might first receive a mighty reward. Thuan saith, that he delivered these things as they were in Leters of John Pipin an eye witnesse of it: who in the Family of A. Mamorantius, M. E. professed Physick; and sent his Leters to Antony Mizaldus a famous Physitian; also, 50 Bononia, on the day before Ascension day, and saith, he leaves the matter to Philosophers to discusse farther. For Pipinus in his Letters, neither said that the Antient knew any such stone, nor do I affirm it. Thuan, l. 5. Histor.

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Plants are first in order into that they at the the enerablit bechille tirey have that degree in Home

mon to all living Creatures. They have a vegetarive foul, producing the muttitive, augmenting, and generative faculties, with all thing fubordinate to them And besides, each hath a specifical form of itsown Being; Works by it, land is diffinguished from others." Nature hath made up their bodies of certain parts, which Philosophers W the kernel, the pith, the bark of the root, the flock, the boughts, branches; the flowers, the fruit. As these vary, id is there very great difference in Plants. The Earth is their Mother their faculty Was given by creation; and because qualities are different, it is found very various in Plants alfo. Moses speaks expresly, Let the Earth bring forth graffe, the herb yielding feed, and the fruit tree yielding fruit after its kind, whose seed is in it self upon the Earth. But Porta (1.2. Phytogn.c.1.) when he had heaped up much ground together, which was cast forth from the foundations of houses, and laid it open to the Ayr, a few dayes after, from the divers qualities of the Barth, divers forts of herbs forang forth. He faw these things familiarly in Naples climat,

giving.

Of wormwood, woolfsbane, and Snapdragon.

Tormwood is in many things a wonderful Plant, it is very bis-V ter, yet the distilled water of it is sweet. Hence the Commentators on Mefues think, that the intrinsecal parts are sweet ! but the matter must be ascribed to the thinnesse of the outward parts: for these being soluble into a vapour, being more attenuated by hear of the fire, are casily resolved, and abate of their bitternesse, Mathiolus in Diofcor, c. 24. The Lye one of which the falt of it is prepared will fobenum the hands, that they almost lose their feeling, Mathiol, de febrib.peft. It is credible, that if Infants before they be 12 weeks old, be anothered with the juice of Wormwood on their hands and feet, that neither heat nor cold will ever trouble them during their life: and if the whole body be anointed they shall never be scabby, Guerth. in Append, ad memorab. Mizaldi. Wallsbane is the quickett of all venomous things, for if it touch but the feerest of a woman, it tills her the same day. This was the poylon, that Mar: Cocilius objected, that Calphurnius Bestia killed his VVives with, when they were affect : hence it is that he fo tharply declamed against him, that they dyed by his hand. Yet experience teacheth, that this may be made use of for mans good, and against the bitings of Scorpions, given in hot wine, the nature of it is to kill Man, unlesse it find some venome in him to be destroyed. Scorpions are stun'd by the touch of it; and being aftenished, they by their palenesse that they are subdued. White Hellebore helps them by its resolving touch, and wallsbane yields to two evils, to that which is evil to it self, and to all others, Plan. But Snapdragon is so contrary to them, that the fight of it hans them: but whilest some by this Acquiet hope to produce Princes savouts. they are deceived, Mathiol: in 1.4. Dioffpr no. 128. CHAP. III.

Of Aloes, Agallochum, and Camomill.

Caliger had found by above 40 years tryal, that Aloes hutts the DLiver, Exerc. 160. Sett. 3. They whole veins Iwell, or are opened, if they take never to little of it, it will certainly go thicker; for it will adde something of its own to open these vellels. But Agalodbum is Aloes wood to excellent, that cast into water, it will not Iwide at all but finks presently; When it is cut from the Tree the Inhabitants bury it a whole year, that the bark may wither under ground, and the wood lose nothing; and they think it will never be to sweet, undeffe it first be worm-caten, Simeon Sethi citante Mathioto. Camonil is

and grounds, fome of them must needs marry. The principles of Male and Female are mingled in them. But that which Pliny writes is falle, that they are begot by the West wind. They wither that fructific most, for their nourithment is confumed; and beyond St. Thomas Island, the South wind onely is faid to blow, elfewhere onely two winds by courses: And it is certain, that all kinds of Plants do not grow in all places. For near Rome Chestnuts will hardly grow: and about Cimmerian Bosphorus, in the City Particapeum. King Mithridates and the rest of the Inhabitants wanted the Bay and Myrtill Tree in their folemnities. Some new Plants are found in new-found places, as Tobacco lately in America, wild Tobacco was found in the Woods of Thuringia, Libavius I.4. de orig verum. Anaxagoras afcribes it to the ayr that hath in it the feeds of all things, and fends them down in showrs, and they become Plants. Diogenes, to the waters putrifying and mingled with the earth. Others to the winds, bringing them. We ascribe them, to Divine providence, which did not produce each individual plant, but disposed of the best in Paradise, and left the rest without, endowing some with virtues to come forth into the light at their fet times. As for their Life, they live by heat in the cartin, and dye with cold. Theophrastus, 1. 2. de Plant. c.4. testil fics, that some of them will spring again; if an Olive Tree be burned to the root, it will grow again: Some will live without the ground, as Onions and Garlick, which being many moneths from the Earth, grow without any nutriment from thence, being fortified by much groffe humour of their own, Marcel, 1.4. hiftor, medic, mir. c.12. The torces of Plants are wonderful. It hath been observed, that if men with wands travel where ill Plants grow, the Ulcers will be inflamed, and cured where the Plants are healthful, Mathiol. in Diofeor. Prafat. By touching of Spleenwort, Splenetick people have been helped; and Taundy-lick, by purting Celandine to their naked feet in their shoes. No man thall be troubled with blear-eyes fo long as heakeeps very clean by him the root of the wild fowr Dock. He shall not be troubled with the Strangury any more, who quencheth in his wine the buth, ing root of Tamarisk. Physitians do diversly dispose them; the Chymilts reach us to know them by their figuratures; and Porta of Naples thinks, that it is certain, that what part of Man they resemble that they are good for, Sennert. de conf. Chym. c. 18. But of theley more hereafter if God please. Now let us see Nature prodigall in Plants, and opening her Treasures, let us admire with thanks

Chapas Of the Sythian Lymb. Sc.

to like to May-weed, that you cannot know them afunder by fight, but onely by smell. This stinks, and bound on will presently blister the skin. The flowers of Camomil taken without the leaves, and beat in a Mortar, and made with oyl into balls, if they be dissolved in the same oyl, and those that have Feavers be anointed therewith from the crown of the head, to the foles of the feet, and be prefently covered with blankets to sweat; if they sweat plentifully, it cures them of their Agues. This is Nitte Sim Legyptius his receipt, Mathiol. in Dioscorid.1.3.c. 1 37.

CHAP. IV.

Of Ammi, Holly, Ceterach, and the Strawberry-Tree.

Almi, if it be the right feed that comes from Alexandria, it cherisheth VVomens fruitfulnesse: if you drink of it a dram weight in the morning every other day, 3. hours before meat. Yet in thole dayes they must not lie with their husbands, as Mathiol, in 3. Diofeor.c.61. With the flowers of Holly, water congealeth; and a flick made of it, thrown at any living creature, though it fell thort by the weaknesse of him that threw it; yet of it felf it will fall nearer to him, Plin. 1,22. Ceterach growes in Crete, by the Rivet Potereut, that runs between two Cities Enofa and Cortina : it destroyes the Spleen in Cattel, that cat it; thence it hath its name Spleenwort: In a certain place that lyes toward Cortina, this Spleenwort is found in-great abundance; but it is otherwill toward Enofa, for there growes none. In the wrong fide of the leave of ir, there is found a precious powder, which being given one dram weight, with half a dram of the powder of white Amber, in the juice of Purslatte, cures the Gonorvhica. The Strainberry Tree flowers in July, the buds by a fingular hanging together, are joyned in clusters at the utmost end, each of them like a long form'd Myrtil berry, and as great, without leaves; hollow, as an Egge made so, with the mouth open; when it fades, what hindred is perforated, Theophrast. 1.3. c.16. de Plantis.

CHAP. V

of the Cane reed, Afterall, and Agnacath

N Zeilam the Reeds are fo large, that they make boats of them le-verally; alfo they make Javelins of them is As in the Kingdom of Pegu, they make Madis and Oars of the Atyoparones : Certain it is, that they are some of them 7 foot about, Scaliger Exerc. 160,110

Mathiolus writes, that in India they grow fo great, that between every knor, they ferve for Boats to fail in Lakes and Rivers, for three

Men to fit in them. Mathiol in Diofebrid. I. v. c. 97:0 Between the Reed and the Fern there is a deadly found, and they fay that a Reed tied to the Plough destroys all the Feln, that growes there. It agrees with Sparagus; for if they be fowed in Reedy grounds, they increase wonderfully. Mathiol, l. citat. The Turking ing to battle, devoure Alleral, and by that they grow merry and bold against dangers: Juglers use this often on their Scaffolds. They mingle a Medicament with Wings that will draw their mouths together : and whold they would put a trick upon; they bid himdip his finger in and fuck it; he putting this into his mouth, cannot for pain fuck it. The Juglers, as if they pittied him in this case, annoint the arteries of his wrifts and temples with some peculiar Oyntment. When he is recovered, like one that comes from Sea after Shipwrack, he winds his hair and garments as if they were wer, and wrings them out, he wipes his Armes, blows his Nose. Scaligen Exerc. 159. Agnacath is a Tree like a Peare Tree, and asgreat, allwayes with green leaves. and very clear in the outside. It makes men so lufty that it is miraculous. Kin to this, is a room in the Western Hills of Allas, the Inflabitants call that part Surnaga. The eating of it gives wonderfull Arength for Vents, they fay if a Man make water on it, he is presently provoked. If Virging do but fit on them trishe fields; of Uring up, on them, the Hymen is prefently broken, as if they had known a

cars, the whole head except the Horns, "For Hornstit, hathe haire! islis fillgular like a Horn, and a very thin Horn covers it the inhabitants take it off, and wie it for cloathing. It is of a wonderful sweetness; Blood runs forth of the wound. As fong as other listes grow about it, follong it will live. It dies, when theforare gon. Wolvesidefirbit, but other boats that feed on fleft, do not was adding exercial 181, fest, 2. The Bathfull-Tree draws back if you bustouch the leaves with your hand, Apollodory, Scholler to Remogratue delseypred that Apple is a medicament amount the tride, of pronderfull use. They that are not used to it from their Childhood, if they car it afterwards, ibkills them, alfo it kills those than are used to it, and the interest aver ie; bue hutes not those if they continue it, a the woman of Cantages when they would avoid punisment if ed of its and the william pain. The King of Province fed with this from his young year as grew to Venemous, that the very this that but flickt his shin well-dand died with it. Tels thought to be Opium, and the Turks Maflach ,

Maflach, Tthough Turnheuferm berbard, 1, 0,29, faith, that by she feeter relation of the Turks, he learned that this was made of the juyce of Leopards bane, yet it is nothing else, but Opum, as Scaliger, Poterius, and Johannes Baptista Sylvagius, interpreter for the Venetians with the Turkilb Emperour, do testify. He being demanded by Bucretius, reported that the Turks have two medicaments, to make them merry, Afra and Bongelies That prepared of Opium: this with Honey, and the leaves and feeds of hemp powdred and used frequently, This will make them undergo any dangers, for it makes them frantick, and if they sleep, they dream of the fighting of Gyants, and fires, and Cities burning, Andrews and the Salar bearing in the grant of The second secon

132

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of Balfome Treesand Betelvier . I was verd Before these times; in Judea the Balsom Tree yielded great pro-fit, and there was an Orchard of it in two Kings dominions, one of 20 Acres, the other not formany; but now there is none to be found. It is probable that the Kings of Agypt transplanted it into their own Gardens, as being jealous of their greatnesses, Plin. 1. 12. 0. 25. In grand Callo there is a Garden of Balfom Trees, the leafers like Rue leaves alwaies green. The Gum of it is gathered in the Trunk of it, making incision at the upper part, with Iron; When the Sun is hottest, that which remaines is not much. For a man can hardly fill a Cockle fhell in a whole day. Theophraftus, 1. 9. c. 6. deplans tis. Thiny writes, if it becut with an Iron, it presently dies, and therefore they that gather Balfome, who Glasse, Stone, and Bone-Knives to cut the Bark, and taking the juyce in wool, they collect it in little Hornes. That Which Is Indian or Occidental, is brought out by die well Indies into Spain. It is the liquor of a Tree called Xilon 31 the . barks of it, which is thinne being cut, a clammy whitish liquof In ifmall quaireity flows forth ; which the Inhabitants preferve. Also the boughs and roots cut into pieces, very small like Chips, and boyled in a Cauldron with water, when it is coldyeilds the famo. From Shell first they collect an Oyle that Iwims at top; that is red from black of a most fweet faiell, "a sharp talk and somwhat blitter! A pound of it in sphin is fold for three Dudais whereas an ounce was wone to be fold for 10 or 20. Baulin in Diofceria's Betel a leafe called foftom the River, which runs not far from Gambaids it grows from a Plant that is wrapt With others and wants proppingly ichaelt deleher flower not juyce! The Indians feed daily on ity whom they are av leafure! for they think when this green that it profflores vencty; It makes their lips red," and their teeth black of maihiold, at Dioftorid. c. 2. It troubles their minus of they carbin too freely the lefore the women of Tarna Patient; to lament for their Husbandra cately will other grow mad; and to they want into the five stand are 1. 18.45

burnt with them. "It is fprinkled with water made of lime, from Shells of Fishes ; and then shey car it, scaliger, Exerc. 1, 46. f. 2. The second of th

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Of Betonie, Birchand Boxt. And Andrews of Anthropy

Etonie is faid to defend confectated places and graves from fearfull apparitions and is fo forcible that it will draw forth btoken bones; bruifed with a little falt, and put into the nole, it flops the bleeding of it, Matheol, in 5; Diofcorid, c. 1. Birch loves to grow in a cold and Snowy Country. The falk pierced with a piercer fends forth abundance of most clear water hires good to break stones in the Reins and Bladder, if it be long drank & Mathiol Live. 93. The Ananii take of the bark of its and wirdard it, land make Candles of it to burn at night, which because they abound with a Pitchy fat, they burn like Torches, and give the colour of Rolin like Pitch. In the Boxwood there is a kind of narcottok force, and a fleepy fulphureous matter. That is apparent from the flinking smel of it, and the ground it delights to grow in Thor is bream in Mountaines and flony grounds, and prospers there, and drinks-in a most stinking Brimflone. From the rasping of it # a water is distilled like the spirit of Wittfol The greatoft Touth-sch listallayed, If you dip a Touthpicker into it; and thrust it into the root of the sking Tooth a and ther to fuddenly that by miracle all molts and by manaif a Channes the paintis presently gond Que of Tutrade be southed the wers present faid fo to purge the bloods, that if one drain the reaf baigi with with field Poppy water wand blood be drawn a way hour aften, lie milituin olean Petreimin Nofel. Harm. difearf nant find the control of the

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when I with the case and such the collect with a crimely Mann is a rootalike affinmenty with a black wind pat forcade the Deterneath as hewereby Armes at The colour of the Pichie wait bus, and folk is divided into divorshoulds but the work is the vollows Te is planted wonderfully , for it is seembbiwith which rooms blu like the Olives by a Olip y doe wig , being out into fevorall pares, is the yet fome of theiring mult beldfr. They fel ib like the Vine and primite up, for the fibres of its rule about like thouse In the fifth morne it is kiba o Scaligery estero. 18 10 fund. Baseralis in Tree in the Kingdom we Bellin, Wiriell is hecre to the Tarking of Guillage of the root of texayon kills bue prefendly in The faile of Wifalublis as remedid for the mile chiepor it officials and any Paylon whitelowers sediden. Entrolaists. f. Clubrafaibme who i Seas Predendi the Sluus of China y Do great

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great are they, that birds of wonderfull bignesse do lodge in them. They are so valt, saith Scaliger, that the greatest Creatures may be born up by them, and taken above ground. Scalig, exerc. 181. [. 10. Tolephus writ of Baaras. In a valley, faith he, where the City is conpassed on the North fide, there is a certain Lake called Baaras, where there is a root called by the same name. It is of a flame colour, and about the evening, it Shines like the Suns beams. Those that come to it, and would put it up, cannot eafily do it, but it draws from them; nor will it flip, untill some body power the urine of the menstrual blood of a woman upon it. Also, then if any one touch it, it is certain death, unle Be he carry the fame root hanging in his hand. It is taken an other way without danger, which is this; They die round about it, fo that very little of the root be covered with the Earth, then they tye a dog to it, and he striving to follow him that tied him, pulls the root out very eafily, but the dog allwaies dies, as in place of him, that should take it up : for after that there is no fear for any man to take it up. It feems to be a Fable, unlesse there be some other meaning in it. the graduate of the state of th

Of Cachi, Cacavate, Gaßia, que Ladies Thiftle, and
Corallina.

Harlie M. A marge Achi is a prickly Tree in Malabar 3. they call the fruit of it Gieradiffinguished by Membranes, as in the Pomegranare, The Apoles are like figs in shape, and sweetnesse, without any rind; there are 250, and fomtimes 300 upon them; Scalig. exerc. 181, f. 12. Amongst thele small fruits, there is another like a Chesnut, and cracks like it, when it is rolled. The fruit grows forth of the flock as it dorn on the Mulberry Pig-Tree, between the prickles and the leaves. Sometimes, which is the greater wonder, it comes forth of the root inder ground, and it brings forth but one Apple, but so great that it will load a strong Man, Maiol, col.de Plant. Cacavate is a free in the Province of America Nicaragna, which so abhors the Sun, that it must be kept allwaies in the shade, and must be covered with the shadow of some higher Tree: In Mondy places that are wet, if it come to the Sunsit peritheth. Libavillade originarum. Caffia oft times is changeed into Cinnamon. Galen law fome boughs that were exceeding good and alltogether like it and fome twigs of Cinnamon like to Collia: hence grew his opinion that for one part of Cinnamon, two parts of choise Casia might be substituted in physicall compositions. Galen de Antid. 1. 134 The twigs of it were cut in peices, and fowed up in green Oxe-hides, least the wood should grow unprofitable, by Worms that will breed in ite Plin. 1. 1.2. c. 29. Of folutive Gallie men fay; that hothat shall daily swallow three drams of the pulp of it before dinner, shall never be troubled with the stone nor colick. Mathiol in Diofeor, l. 1. The flowers of the milky Thiftle, which they

Chippin. Of Cinamon and Cedar.

call Cardins Maria. Platerunghoit, faith, they cured a Souldier of the Strangury, onely by looking upon them. Corallina is of fo great force against Worms, that it drives them forth the same day it is taken. There was a Boy that took it, and voided 70 Worms: The Antients knew it hot, now they use it all over Greece, Lemn. occult CHAP. XI.

Of Cinnamon and Cedar.

Innamon growes in Zeilam, and in one of the Molacco Illands, Mutir. It bears no fruit. In the hear, the rind cleave and comes off, it is pull'd off twice a year, Scalle. Exerc. 144. Fiff it growes fweet, and the next moneth it comes to perfection. In Galen's daves it was fo scarce, that ho man had any but the Emperour, Galen L't' de Antid. But even at this day there is fearce any fuch as Galen describes, scalig. loe cht. It holds not good for 30 years, for it is falle, littlat others write, that it never growes old. I (faith Galen, los ett.) observed some change in Cinamon, not that was 200 years old, but far hounger, in comparison: Por at the time that I made Thetiac for the Emperball And toninus, I faw many woodden ve sels wherein fach Chamon war, Jonie were laid up in the time of Trajan , pilers of Adrian ; Jome in Antonimis his time; and all these in taste and smell did exceed of fall bort the of law-ther, so much as they differed in age. Codar doth bring spungs the pulresaction without pain, because it is dry and preserves area budies from corfuption; for it drinks up the superfluous morning in them, not niceding with what is firm, white it is Diefort, along it kills Nirs, Lice; Moaths and Worths Bred in the cars; land on it kills the Child that is living, and drives forth the dead, Theophraft. 15.16.8. It corrupts the feed in copulation, and hinders procreation. It grew formerly abundantly in Libania; now adayes it is very little there; (Rhanwolfius reckoned but 24 Trees). It is wonderful for height and thicknesse. The body is so great, that three Men cannot fathom it. It is far greater in Orchards, if it be let along and not cut down. At Welca there was the Temple of Apolla, where the beams of the Nami-Panin cedar's lafted; for they were laid there at the first founding of ther The cold of the first of the cold of the second of the cold of the The foot loves Lime, it comes up by of Cong 12 in neo field. Verter

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CHAP. XII.

Of Chamaleon, Cloves, and Cichory,

File root of black Chameleon is venomous in Greece and Pontus; Mathielus ascribes it to the goodnesse of the climate, where it is not fo. For the Peach Tree was formerly deadly to the Persians, but fafe to the Egyptians; and Cuckowpine was fo mild amongst them of Cyrene, that they ear it for meat like Rape roots. In Greece and Italy they cannot cat it boyled nor raw. It kills both Dogs and Sows, Dogs, when it is kneaded with barley meal, oyl, and water; Sows, wirn Coleworts. If you would try whether a fick man shall live. some say he must be washed with that root for 3. dayes; if he can endure it, they think he will not die. The clammy substance growing at the roots of it, is present venom; but taken moderately, it makes fleepy persons wakeful, Theophrast. 1.9. de Plant. c. 23. Hence the women of Grete, that they may not fleep at their work, cat a little of it after Supper. The Clove-Tree growes in the Indies in some Islands of the Indian Sea, it is like a Bay-Tree, with narrower and most sweet smelling leaves. Cloves proceed from them, that are nothing but the beginning of the fruit. It growes of its own accord when the Cloves fall down, Mathiol. in 1, 2. Diofcorid. c. 253. It growes to perfection in 8. years, and lasts a hundred years. It bears fruit onely in the Molucco Islands. The keepers of it beat the Tree with Canes, covering the Earth before with Palm-Tree coverings. For 3. years it yields fruit, then it growes barren, and degenerates, Scalig. Hiere. 146 f. T. cichory, called wart-Succory, kills Warts. Many by once cating one Sallet of the leaves of it, have been freed. The feed doth the like taken one dram for three dayes after Supper, Mathiol. in 1, 2.c. 125.

CHAP. XIII. Of Sassron and Cherries.

CV Affron flowrs almost for a moneth; After the flowers, by and by Come forth the leaves, that are green all the Winter, not caring for the cold; they grow dry, and fall off in the Spring; they never appear in Summer, Mathiol. ad l.1. Dioscorid. c. 25. It flowers when the Pleiades set; and presently with the leaf it drives out the flower. The root loves Lime, it comes up by periffing; whence those Verses, were made:

Sassron that's bruis'd growes fairer; be not sad, To suffer, for at last 'twist make thee glad.

Minder. Moed. v. 4. It is good for fortnesse of breath, Cardanus de Spirat.

Chap. 14. Of the Dog-Tree, Go.

Spirat. diffic. It recovered the Mother in law of Cafar de Comitten, who for 2. moneths was fo short-winded, that she was next to deaths-door. Given to women in labour, it prefently flyes to the Matrix, to that one woman was delivered with a child, dy'd in Saffron, Heurn. 1, 2, medic. c.14. It is hurtful to the brain, and with much uting of it, it will cause one to laugh: we have an example of a Merchant who fell into fuch a laughter after meat, when he had earen over-much of it, that he was ready to die. A Mule-driver at Pifanta, fleeping upon two little bags of Saffron, dyed that night, Lufitan. Com, adc: 25, 1:11 Diofor. Cherry-Trees cannot away with dung; if therefore you dung their roots, they degenerate; they prosper well if you cus off the branches of them, and bury them by the roots, that they may corrupt there. They grow without flones, if you cut the Tree off when it is young, about 2. foot from the ground, and pick out the pith of

117

CHAP. XIV.

it with an iron, clearing the flock, and bind both parts, together

again, Mathiel. ad l. 1. Dioscor. c. 129.

Of the Dog-Tree, Cypreffe-Tree, and Cucumbers.

He Inhabitants of Ida by Troy fay, that the male Dog-Tree is barren. In Macedonia they are both fruitfill; but the Male brings ripe berries in Summer, the Female in Autumn. Thefe Berries are not fo good as thole; for they can hardly be eaten. Bees that talte of its flower, die by a dysentety. The Cyprelle-Tree growes has turally onely in Candie; for in what place foever the earth is digged, unleffe it be planted as it should be, it will come forth again of it felf. In Mouhe Ida it growes very well and numerous, in ground that is not forced, Plin. 1. 16. c. 33. Ser in warry grounds it presently decayes, and it is kill'd by laying dung to it. The feed is as small as Atoms. The Pilmires delire it, which is the greater wonder, that fo small Creatures can devour it all; the leaves are alwaies green, and the substance is never rotten, nor breeds Worms, Rhodigin. 1. 25. c. 24 Plin. 1.26. c.40. The Image of Vejovis made of this wood, remained in the fortresse from the year the City was built, 551, even to the dayes of Rhodiginus. In Arcadia at Phophis there were some so tall, that they overshadowed the Mountain that was next to them. Delechamp, ad loc. cit. Plin. Cucumbers are sometimes wonderful great, that in India one man cannot carry one of them. Scaliger law one was 7. foor and a half long. He fairli alfo, Exerc. 171. That he had a dry Sourd, which a man that carried it in sport, feemed to have a great Log on his back; It was 13 hands breadth. Eaten, they remain in the flomach till the next day; for they are of a clammy and cold substance, Plin. 1, 19. c. 5. They to hate oyl, that if a veffel of oyl be put under them when they hang on the falks they will turn from it, and grow crooked: They

grow very tender, if the feed be neeped in malk before they be Acres Continuentes Continuentes aga territorização de macanares. TO THE CONTRACTOR OF THE PARTY OF THE PARTY

graph which is a straight CHAP. XV.

and or Of Onions, Celandine, Hemp, and River Sponge.

He Onions of the Ascalonite are of a peculiar nature; they onely are cleft from the root and barren; nor will they grow from that part, Theophr. 1.7. c. 4. Therefore they are not fet, But fowed with their feed, and in the Spring they are transplanted with their branches. In Candie also, there is a kind of them that growes thick in the root, lowed in feed; but let, it foreads into falks and feed; it is fweer in taste, but hath no head. Seed of Elinus being pur into Onions, there will fpring up an herb, with leaves like Hax, of a sharp tafte, they call it Dragons. Yet Scaliger was deceived when he fowed ir, and thought to try this miracle, Scalig. Exerc. 169. f. 2. They fay of Celandine, that Swallowes lay it on the Eyes of their young ones, and restore their lost fight, Dioscor. 1. 2. c. 186. Hence, Aristotle 4. de generat, Animal, c.6. faith, prick the young Swallows eys, and they will fee again: Worn next the foles of the feet, it cures the Jaundies: laid to womens breafts, is will stop the too great abundance of their Terms, Mathiol. ad Diofcor, loc. cit. Garden Hemp-feed will make Hens lay, and it extinguished mans nature caten too largely, Mathiol. adl. 3. Diofcor. c. 48. The decoction of new Hemp if you presse it our strongly, and pour it on the ground, it will force the Worms out of their holes, and kills Worms in the gars, Plip. 1, 20. c. 23. River Sponge is proper especially to the Rivers by the Alps. A bruner of Trees was cured by it, that fell from a Tree, and brake alinoft all his bones. They laid it round his body, and as oft as it grew thry, they fprinkled it with water. Though they cid this but seldom, yet he was quickly restored, Mathiol. ad 1.4. Dioscor. 1.94.

CHAP. XVI.

Of Hemlock, Ciacompalon, and Cocco.

Emlock is a kind of poyfon, that makes men mad, and kills them. Franciscon Trapollinus dyed mad with it, when his Maid had put it into his Portage instead of Parsley. It hath made fome Creatures lie for dead, and when they stood up again, they were afterished a long time, and afterwards they ran wildly up and down, Scaliger writes, he never faw any man that was killed by it. Starlings feed on it. From Plato we collect, that the force of it may be abay red, if one be moderately hot before he take the juice of it; Therefore Scaliger, Exerc. 1 72, f. 1, faith, That the Executioner that was to

orve this most deadly Rosson, warned Crito, that he found not Suffer Socrates to dispute too much, because by that agitation of the mind, he would grombat, Ciocompalon is a kind of Tree in Camalonga, which fends forth only 4, or 5, branches from a long, stalk; the leaves are very great, for the inhabitants weare them for a Cloke, against the heat of the Sun and rayn. In the top of the Tree it puts forth flowers like Bean flowers, about 200, from whence grow fruit abundantly, as hig as ones hand breath. It is a yearely Plant. It withers after it hash brought forth. Coccus is the fame with Tenga. It is a Tree with a leaf like the Palmetree: they cover their houses with them, for they make mats of them to ferve for fix months, (in China and Malabar) Scalig exerc. 25. f. 13; It brings fruit in clusters, as the Palme Tree doth, each hath ago. nuts. When its comes forth, there is water bred in it is filled with it & when he is perfect. The end of this increase is the beginning of the Pith, for it grows by the thickning of it. The quantity is full three Cyathe. It is very sweet, When the Tree is come to the full growth, in August, they cut some of the boughe of it in the middle and leave the reft; they out off the top alfou little. They hang a conto each of them, four great jugs are filled in one day ... It brings fruit that continually follow one the others it lives, 30, or 40, yeares. CHAP. XVII.

Of Doronicum , Dragons , Qlive-boncy , Fipers , Buglofe , 14 Eryngion & Ruphorbium.

encession of the state of the state of the state of the Oronicum is Poylon, that kills dogge fundenty on that thinky gave. fome to his dogg, and the dogg fawned an him all the time he lived in feven hours he died, as of a falling fisherelle. There is a line of Tree in the west Indies neere Carthagena, the feuit whereof is perfectly ly like a Dragon, with a long neck s open imduling noficills lifted up, a long taile, standing on its feet, so that who sessie would think it to be a Dragon. Monarel. In Palmyra of Syria there rule forth oyle from a flock of a Tree, that tasts sweet; it is called Elev-meli, Ma. thiel. in l. 4. c. 73. It purgeth choler and crudities, exhibited one fextarius of it, with one Hemina of water. They that take it grow flupid, but they receive no harm if they be often rowfed, that they may not fleep. Diofcor. I. 1. c. 32. Echion of Vipers Bugloffe, was found by one Alcibius. Sleeping on the ground, a Viper bishim, thiol in l. 4. c. 25. When he role up; he prefied out the joyce of the hearb with his teeth, and drank, it down, the rest he laid to die wound and it cured him, Nature hath made the hearb with hairs like Vipers, that Men might know thouse of its in Eryngian, if a Goastake ir in the mouth, the whole heard will frand full, and cannot mave till you take it out. Plusarch in lib. quod maxine tum principality ff philof, The finell of it passeth to quick, that it, spreads like trees What is next, and exerciseth its force upon it, Supprhism, if we believethe Africans, is a prickly Plant, out of the root of it the fruit comes forth of a long forme like to Cucumbers, fomtimes two foot long, when it is ripe it is pricked with an Iron; and a clammy white liquir comes forth of ir, which they let tiln into a bottle, and they keep that. scaling over, 18 1. 6.2. It putgeth the belly, but the patient will faint and sweat with a cold sweat. Given, the weight of two Ouboli, it cures the druffy; it kills one if he take three drams weight. For in 3 days ich will corrode the Stomach and the Guts. Mathibl. in 1: 3. 6:86.

Allen a geffel haga where et bert balle bereit in ber in be Of Elaterium , Hellebour , Eupatorium , Emilam and The same of the same period of the same of

Laterium lasts longest of all Physicks. One had of it that was 200 yearesold. The moysture is said to be the cause of it. For chough it be cut moult and layd in the athes, yet for 50 yeares it will put out a Candle, if it be put to it. Theophil, l.g.c. 14. With the infusion of Hellebour in the midst of Winter, when the cold is greatest, many have been cuted of a Quartane Ague. Matthiolus ad l. 4. c. 146, Neverlaith he as I remember, did we give our infusion to thosehad quartane Agues, but at once or twice taking, by Gods assistance they were cured. By the finell of dryed Eupatorium, venemous Creatures are driven away. Hearts wounded are cured by cating this; Matthiol. ad loc cit, c. 37. Emitus is a Tree in Teachimia; if Serpents come neere, and but touch itsthey dye. Elian, 1.9.c. 27. Alfo Strabo faw one Luistthat I will here mention, it was like a Bay Tree; beafts that raft of it; grow mad, foline at the mouth, and fill into an Epilopic. In the Kingdome of Tombut which is the wilde of West Lihiopinist Pennit grows fo big sythat they make bowes of it. Scaling, exerc. 166. In spain) whilf it is green, the Country people mowe down elle fealkstof it for fitings: Dalecamp ad Plin: 1, 20.c. ult. The forest of the state of the

compared to any work CHAPO XPX! Here we show the control you and about wol modered ขึ้นเป็นไป คริงใต้เกิด

of Pennel Gyant and the Fig-Tree.

Ehinel Gjant grows in hot Coulltries! Out of the first shoots of it Shepherds take out a little pith, like to the the yolk of an ege that is hard. That wrapt in a wer paper and rofted under the embers and then sprinkled with Salt and Pepper', tasts exceeding well and makes them bufy. Mathiel, all 1. 3. c. 76. They are by nature of great antipathy to Lampreyes, for if they but touch them, they dye, Plin. 1. 20. c. 33. Alfo they are present Poylon to other Beasts; yet very pleasant food for Asses. The Indian Fig-Tree is wonderfull great.

Scaliger briefly describes it out of Theophrastin. The Fig. Tree, faith he, beares small fruit, it plants it felf, and is spread forth with valt boughs, by the weight whereof they are labended to the earth, that in a yeares space, they stick in and grow up with new branches, found about their parents like to Arbouts: fo that feven Shepheards may fummer under it, being shaded and fenced about with the sence of the Tree. It is pleasant to behold, and from far it seems, an arched circumfetence. The upper boughs of it put forth very high, and in abundance like a wood from the huge bulk of the Tree, that many of them make a round of 60 paces, and they will cast a shade two furlongs. The broad leaves are like an Amazonian Target: wherefore covering the fruit, it will not let it grow; It is very rate, and no bigger than a beanc. Scalig, exerce 166. Moreover Carthage was dethroved by the Fig. Treet Por Cate bearing a deadly hato against Carringe, and being carefull to fecure his pospedity s when the had cried out at every meeting of the Senate in that Gotthage must be dethroved , he brought one day into the Courty a carly ripolical that was fetcht from Carthages & shewing it to the Sonatours, he asked ed them, whence they thought that Fig was taken from the Treet And when they all granted it was nawly gathered, the replied and and since was this pulled at Carthage; to neere to our walls is the enemy. They presently began the 3d. Punick, Warre wwwberein Carchage was rooted out. In Hyrrania there are some that each of them will beare 260 Buffells. Plinel, 18, 24, 184.

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Of the Alb, Mulbroomis, and the Becoh will will be at La to go and the form of the property of the same of the

He Alb is an Enemy to Serpents, none of them can addute the shade of it, though it be late at night, Plin, I. 16, c. 13. Pliny faith, he proved it, that if a Serpent be commaffed in with Ashwood and fire, he will leap into the fires before he will passe over the Ash wood. This is the great bounty of Nature, that it flowers before the Serpents come forth, nor double leaves fall, till the Serpents be gone to hide themselves. Wessels made of the wood of it todule of meat and drink halp the Splangand the Stong wonderfully. Dom. Zean L. supratt. Abothe waters signife out of which fire breaks forthy it did once profper living billet, i. a. don't i Mulbrooms (profited) groat il Namidia, that they are thicker than | Quindet, i In the Ningdome of Naples the crust of the ground is thick; and like Marble, that being covered with earth a fpan deep, and forinkled with warm water) in 4. dayes fends forth Mushromes is edig in North 1812. S. L. I wis of necessity that there be some seminary vertue, out of whose bosome they may proceed; for the water that is sprinkled ton affords makes and nutriment, and also a procatat Aidal cause; Librol 1, Apillo Chym,

30. It they be boyled, or me juice be prefled forth and poured at the roots of Trees, (especially Beech-Trees) Mulbrons will grow from thence in great abundance, Sennert. ae conf. et difp, Chym. c. 12. In the Northern parts under the Pole, Beech-Trees are frequent of a magi netick vertue, and the Ausbroms that grow to them are changed in to Loadstones, saith Olaus 1, 12, c.1, A CONTRACT OF THE PROPERTY OF

CHAP XXX

Of Guaicum and Gentian.

Maicum is of great vertue against the French-Pox; In Italy at first I they were fearful to drink it. Bread and Raisins were prescribed with a moderate diet, and to live 40 dayes in a dark Chamber, and that fo curioufly, that they admit not of the least Ayr, Mathiol. in l. 1. c. 21 The errour was observed afterwards, and Hens flesh was allowed, but not a drop of Wine. Mathiolas was the first that tryed it with successe, and others followed him; Gentian, called also Cruciata, is the herb of S. Ladislaus a King. The report is, that the Taylars drove him out of Hungary, and that he fled to Claudiopolis a City of Davia; There he grew acquainted with a rich man, and became his God. father. He helped him to drive out the Tartars. They as they fled, threw down moneys of Gold that they had plundered in the field of Aradium, as a means to hinder those that pursued them. The King pray'd unto God, that they might be changed into flones; and it was fo. Hence it is that there are so many stones there. After this Hungary being afflicted with a grievous Plague, He obtain'd of God, that what plant an Arrow shot into the Ayr should fall down upon, might be a remedy for that dileafe. It fell upon Cruciata, and by the ule of that the Plague was driven out of that Country, Camerar. Centur. 3. Memo. CHAP. XXIII

Of Brooms Ginger, and St. Johns-wort.

TIN Rony and landy grounds, 3, foor from Broom, one moneth be Liore and after the Calends of June, there is a kind of Broomrape found that is a cubit high; if this be bruifed, and the juice proffed forth, which is like to clear wine, and be kept in a glasse bottle stept all the year; it is an excellent temedy against the Plague. Ginger is a root that creeps along with knots and joynts, the leaves are like reed leaves that wax green anew twice or thrice a year, Mathiol. 1.2. c. 154. There is some difference in the taste when it is dug forth before its time to be ripe. The fit time to gather it is, when the root growes dry, otherwise it is subject to Worms and rottennesse. Str

Johns-Wort both feed and flower is wonderful to heal all wounds a besides those in the head. Some writes that the Devils hate it so much, that the very smell of it drives them away. I think this superstirious. The same is reported of Pellicary, especially for green wounds. If it be bruifed greeff and bound to a wound, and taken off the third day, there will need no other Medicamehr, Mathill in 1.4. t. 81.

CHAP. XXIII.

Of Elecampane, Turnfole, and Hiuoa.

Lecampane is a yearly Plant, that growes higher than a man's Sometimes 24 foot in height: it growes up in & moneths after the feed is fown; on the top of the stalk there growes a head like an Artichoke, but it is rounder and broader, and it extends it felf with a flower as big as a great Diffy Bauhin, ad lib, 4. Diofeor. c. 182. Some times the diameter of the dith is more than afoot and half ; and it is compassed about with long leaves of a golden colour, or as it were Sun-beams, and the plain of it in the middle is purple colour. The feed is disposed of in the holes of the dish; it hath a black rind and sweet substance within: so great is the abundance of it, that some times you thall find above a thouland in one difft; Some there are that take the tender stalks of the loaves; and foraging away the Down, they boyl them on a grid-iron, and scason them with Sali, Oyl, and Spices, and they are better taited than Artichokes. It is a wond der, that it mins with the Sun East and West; for when the Sun The feth, as if it did adore the Sun, it bows down the head, and it rifeth with it, alwaics pointing toward the Sun, and opening it felf very much at the root of it, till the Sun fers, Turnfole kills Pifmires, if you stop their holes with it. If a Scorpions hole be compassed about with the juice of it, he will never come forth; but if you put in the herb, he dies, Mathiol. adl. 4. c. 186. Hinca is as great as a mans thigh, it goes about with the Sun, though it be a clowdy day, and at night it is contracted as fad for the Suns absence, Plin. 1. 22. c. 21. They break it into fine meal by rubbing it with Pumex stones or whetstones; then they put it into an Hippocras bag, and pour water to ir. and presse forth the juice: The Liquor is deadly, but the meal that is left, is fer in the Sun; as they do Sugar-Candy, whom the meak is dry they comparit with water, and make bread of ity sollie. Extre. ชชัชต์ 1/8 (15 ใหม่นาย การประวัติและ ค.ศ. 1 และ ค.ศ. 1 และ โดยเป็นเท่านั้ Date of the second of the seco

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CHAP. XXIV.

Of Impia, Juniper. and Glasse-wort.

Mpia is thought to be a plant that no Creature will tafte of, and I from thence it hath its name : yet bruised between two stones, it will grow hot; and the juice of it mingled with Wine and milk, is excellent against the Quinsie, Mathiol. in 1. 3. c. x15. They that shall taste of it will never be troubled with that disease. Some think that part of this herb is put into birds nefts, and that keeps their young ones from being strangled when they eat so greedily. Juniper is hard; hence it is, that the wood will not corrupt in an hudnred years. Therefore Annibal commanded to build the Temple of Diana at Ephelis with Juniper beams, Plin. 1. 15. c. 40. A light cole of it covered with its own ashes, will keep fire a whole year, if we will credit the Chymists. An admirable Bath is made of it for the Gowt thus: Take 12. pound of Juniper wood cut in pieces, boyl it in water in a great Cauldron, till but a third part remain; then pour forth the decollion with the wood into a Fat: let the fick go into it and fit there up to the nawel, and bathe his limbs, but he must first purge, Mathiol, l. i. Dioscor. c.87. Many Gouty people have been made whole by this Bath, that were forced to keep their beds before. The pith of it in Namidia is whites in Athiopia, black; in Lybia, purple coloured, Scalig, Exerc. 181. f. 9. Also the African Physitians raspir and use it successefully for Guaicum, against the Indian disease. I say by the by that this disease was carried by the Jews our of Spain into Africa, and cannot there be cured without a remedy. But if the Patients go into Numidia, or Athiopia by Nigris, there the Climate onely will cure them. Of the Ashes of Kaly, Salt is imade; this is diffolved, with powder of stones, and a kind of clammy substance swims a top to make glasse; when it is cold, it growes hard, and is called commonly Axungia Vitri; being powdred, it makes the regth wonderful clean, Plater, l.2. de Vit.

CHAP. XXV.

Of the Bay-Tree, Mastick-Tree, and Flax.

He Bay-Tree will yield fire of itself; and if you rub the dried boughes often together, strewing powder of brimstone thereon, it will take fire, Mathiol. in l. r. c. 90. It is alwayes with green leaves; and so great is the force of it, that but stick some of the boughs in the fields, and the corn will never be hurt with smut, which is the plague of Corn; for it will take hold of the leaves. At Rome they held anticuly, that Jupiter sent it from heaven, Plin. 1. 15. c. 30. For an Eagle from aloft let fall a whitchen, into the lap of Livia Drufilla, (who afterwards was called Augusta, being married to Casar, whom

the was espoused to) she wondred at it, but was not afraid; the miracle was, that the had in her beak a Bay bough that was full of Bay berries. The Southfayers commanded to keep the Hen, and her Chickens, and to fet the Bay bough, and take care of it, which was done in the Mannour of the Cafars, that was by the River Tibur, about 9 miles from Rome, in the way Flaminia; and therefore is called, ad Gallinus, and it grew into a great wood. Cafar afterward in triumoli held a Bay-bough in his hand, and had a Crown of bayes on his head. Amongst all Trees this onely is never stricken with thunder, unlesse it be for a fign of future calamity; no houses are thunder-stricken, as they fay, where the boughs are ; Therefore Tiberius fearing thunder, when it did thunder, put on his Lawrel Crown. Theophrastus writes. 4. de Plant. c.8. that they are stony in the red Sea. The Mastick-Tree beats little bladders bowed in like to horns, wherein there is contain'd a clear liquor, which with age is turned into little Creatures, like to those that fly out of Elm and Turpentine bladders. In the Island Chios, of the Egean Soa, from the Mastick Tree cut, rims forth Mastick: it growes in ground that is ramed task together, and paved, Mathiol. I. i. c. 45. If you oft-times distill Linfeed oyl, faith Bapt. Porta. 1. 10. mag. c. 9. it will be fo ready to take fire, that you can scarce shut it up in a Vessel, but it will draw fire to it, and if the veffel be open, it is to thin, that it will fly into the Ayr and evaporate, and if the light of a candle or fire touch it, the ayr will kindle, and the oyl will flame so violently at a great distance, that it is almost impossible to put it out. In the Defarts of India it growes red, that will endure the fire, and be purified by it. Ir growes out of ftones springing, and rising upward, the hair is short; and is therefore hard to be spun, Libav. 1. 2. c. 7. de Bombyc.

CHAP. XXVI.

Of the Larch-Tree, Lilly, Loosstrife, and the Lote-Tree,

Ome of the best Writers say, That the Larch-Tree will not burn, and we alledged it before out of Lemnius; but that is found to be false. In the Mountains of Trent Iron is made, and the Furnaces are hear with Karch-wood; and no wood will better melt mettals. Andif stones will burn that have a Bituminous matter in them, what shall we conclude of a Rofmons kind of wood? Lillies will hold green all. the year, if when they are shut, and have not opened themselves, they be crope, and put into new unglased pots, and kept close covered; Mathiel, ex Anatolio in 1.3. Diofcor, c.99. When in the mean time you take them out for your use, bring them to the Sun, and by the warmth of it they will open themselves. Loosstrife is a notable remedy against the Plague; the Country people found this Plant among it the Ganomadi; bound something high upon a man, it will drive the poyson! of the plague downwards, and keeping it there, will not let it rife upany more, Ruel de natur, stirp, 1.3. c. 78. If Oxen disagree, lay this on their yokes, and they will be quiet. The Lote-Tree is a valt spreading Tree full of large boughes. Domitius valued 6. of the m at a thousand Sestertia, Plin.1.17.0.1. They lasted untill such time as Nero burnt the City, 180 years. There is also an herb in Egypt ca'll'd by d i Name, that when the waters of Nilus go back that water I, the ground, it comes up like a bean, Plin. l. 13. c. 17. The fruit of it is like a Poppy head dented in, and the feeds are in it. The In habitants putrefie the heads in heaps, then they wash them apart; when they are dry, they bruife them, and cat them for bread. When the Sun sets, these Poppy heads close and are covered in leafes; when the Sun rifeth they open, till they grow ripe, and the white flower fall off; That bread is Physical, Plin. l. 22. c. 21. They that feed on it are never troubled with a Dysentery nor Tenasmus, nor any discases of the belly. When it is hot, it is the most casic of digestion: but cold, it is harder for the stomach.

CHAP. XXVII.

Of Malabathrum, Punic and Assyrian Apples, and the Tree called Mangueis.

M Alabathrum is a leaf of its own kind that the Lakes of India produce, swimming like Duckweed on the waters without any root: they gather it and flitch it through, and hang it up to dry, Diole. 1.1.6.11. They fay, that when the Summer heat dryes up the waters, the dry sprigs do burn on the ground, and if this come not to passe, it growes there no more. Diofeor, divides Pomgransites into 3, heads, some are sweet, some sharp and sowr; others are between both. They fay that tharp ones will grow fweet, if hogs or mans dung be laid to the roots of the Trees, and to water them oft with old urine, Muthiol. 1. 1. Diofeor. c.127. They are kept from corrupting a whole year, if when they are almost ripe, the branches they hang by, be woond about the Tree; or after that they are gathered, they be Vincered all over with Clay resolved in water, and laid some dayes in the Sun. Also they are dipt into scalding water, and are presently taken forth again, and laid 8. dayes in the Sun to dry. The Affyrian Apple-Tree bears fruit alwaies, some fall off, others coming in their places, ripening one after the other. Pliny, 1. 12. c. 3. faith, That people tryed to transport them for themselves, because they are so good for health, and to carry them in earthen veffels, giving place for their roots to take ayr by holes in the vessels, as all such things that must be carried far to be set and transplanted must be used, which you must remember that we may not say one whing twice. But they will not grow but among It the Medes and Perfrans. Do dies writes, as Libav, de origirerum, reports, than an Affyrian Apple, whien it was cut, was found great with a young one in it, that lay in it as in

the Wonib, and was fastned to its stalk. The question was how it grew so, and it seems there were may Apples on that twig placed close together; and the sirst growing but slowly, that which grew over it by abundance of matter coming to it, grew saster, and pressing with its weight on the lesser, took it into it, and so grew about it. Mangues is a Tree in the Country Temistican; out of whose stock peirced, there slows a watry juyce. If any Mandrink too much of it, he grows drunk and stupid. The bark is good for thread, the wood for niedles, the leaves to cure diseases, and to cover houses. Maid. in Colloqu. de Plant.

CHAP. XXVIII.

Of Musk and Mosse.

I usk is bred in the Navel of a certaine Creature; two kinds of This Creature are described: one is like a Goat with one Horn; and a great body. This when it is prone to venery, with the vehemence of Lust, the Navel swells, and the impostume grows great by the thicker blood heaped together, Ree! , ex Actio. Then it will neither eat nor drink, and roles it felf often on the ground, by which rowling it preffeth forth the blood that swells in the Navell; The matter pressed our in a short time grows wonderfull sweet. Sealiger writes of the other, that is in the Kingdome of Pegu, like a roc busk, white, from whose lower Mandible, the teeth put forth equally on both sides Mnder the belly of it (I set down the story out of Scaliger Exerc. 21) the Navel swells. They catch the bealt, and cut off that part with the skin; and all the drops of blood that run out, when it is cut; and fall down, they are either catcht, or gathered up for good Musk. When they have cut it, they fet leeches on, so many and so long, till they kill it by drawing blood from it: that blood fo drawn forth, being dried and made into powder, they mingle with the former in [mall quantities, that is very frong. One hundred part is sufficient. The sophistication is discovered; if you smet to it. That which is unmixt, will draw blood from your nose if you put it neere. There is another kind of Musk called Civet, it is bred in a little Bladder in the testicles of a certaine Creature. Alathiol adl. 5. c. 20. And growing like sweat in the testicles, is of quality moyst and hor: that put into the Navel hole wonderfully cures the strangling of the Matrix. There is one kind of Cranes-bill that finels like Musk; especially Evening and morning. The hairy Mosse of the Larch-Tree, if it be set on sire, burns so violently, that it exceeds Gun-Powder. Mathiol loc, cit. For they flame with a World of sparks in a darknight, and flye up toward the Starrs, leaving a fweet smell behind them. Gathered new, and steeped with Oyle of Roses, it wonderfully abates paines of the head that come from a hot cause; it stops blood, layd upon wounds.

T: 2

CHAP.

CHAP. XXIX.

Of Mandragora, Mallows, and the Mulberry-Tree.

M Andragora is a fleepy medicament, as experience proves, Lemnius in explic. herb. biblic.c. 2. For when as he had negligently laid the fair and amiable fruit of it in his study, he was oppressed with drowfinefle; but when he removed it, he grew wakefull again. The same thing hapned to the Ascicans in their Warre against the Carthagenians. For Hamilear corrupted the Wine in the Vessells, and let the Africans take it for spoil: when they had drank, they all fell affect, and the Carthagenians became Conquerors. Potyan, 1. 5. Phythagoras calls it 'Avopowouldstes, For the roots from the middle to the bottom comeforth with two forks, that it feems to have legs like Men. The fruit is like an Apple, not far from the root, upon the leaves lying on the ground. Heidfeld. in Sphing. Philosoph. Wherefore if it be dug up at that time, that it beares fruit, it represents a Man without Armes. There are also some Counterfeits made of reeds, Mandragora, and Bryonic roots. Matthiol I. A. Dioscor. c. 7. sheweth the way an impostor used to make one. They carve (saith he) in thefe the Images of both men and women flicking the graines of Barley and millet in the places, where they will have haire come forth; then making a hole in the ground, they cover it with thin fand, fo long till those graines shoot forth, which will be in 20 dayes at least. Then they take them up againe, and cut the roots where the graines grow to them, with a very sharp Knife, and they fit them fosthat they may represent the haire of the head, the beard, and other parts that are hairy. Mallows are so venercous, that the seed of that which hath but one stalk strewed on the privities, is said by Xenocrates to increase lust infinitely in women. Also three roots bound together are thrust up with great successe for the tenesmus and the Disentery. But it is a wonder, that water should in the open agre grow thick by it, and white as Milk. Plin. 1, 10. c. 21. The Mulberry Tree will not bud till the cold be over, yet it brings forth fruit with the first; when it begins to bud, it buds so violently, that in one night it buds all over with a noyfe, fo that the whole Tree will be covered with flowers, Pliny, 1. 16. c. 25.

CHAP. XXX.

Of Napellus:

Apellus kills with every part, but chiefly the root. For held in the hand till it wax hot, it will destroy you. It is certain, that some shepherds that used the stalk for a spit to rost birds, dyed of it. Mathiolus. (Com. in 1. 4. Dioscor. c. 73.) consirms this venomous quality of it by many examples. I shall adde one. One dram of Napellus

Napellus was given to a Thief that was 27 years old: He drank it down, and faid it tafted like pepper. Most grievous symptoms followed: for he vomited often something green, as Leeks. He felt a thing like a ball about his Navell, it came upwards, and fent a coldvapour to his head; then he became stupisted as if he had a palsie that laid hold on his left arm, and leg, that he could scarce stir the top of his hand, all motion being loft in the other parts. By and by this force of the disease for sook his left side, which became sound, and feized on his right fide, and wrought the like effects there. He faid. That all the veins of his body were grown cold. He had giddinesse in his head, and his brain was to often disturb'd, that he faid it feem'd to him like boyling water. He had Convulsions in his Eyes and Mouth, and a very tharp pain in his Mandibles; wherefore he often held those parts with his hands, fearing they would fall off. His eyes appeared outwardly fwoln, his face wan, lips black, and his belly was feen to fwell, like a Tympany: His Arteries bear strongly, and his mind was diversly troubled, as the symptoms increased. For sometimes he thought he should die, and presently he hoped to live; fometimes he spake rationally, and sometimes he doted; fometimes he wept, and fometimes he fang. He affirmed, that in all this time he was thrice blind, and thrice in an agony of death, but his tongue was firm, never troubled with any symptome. Thus far Mathiolus. But all these symptomes by giving him Bezars stone, vanished in seven hours.

CHAP. XXXI.

Of Nystegretum, Granum Nubia, Nutmegs, and Olive Trees.

Ir Elegretum was admired by Democritus, amongst a few things; it is hot as fire, and hath thorny leafs, nor doth it rife from the ground. It must be dug up after the vernal Equinostial, and dryed by the Moon-light for 30 dayes, and then it will shine in the night, Plin. l. 21. c.11. It is also called Chenomychon, because Geese are afraid at the fight of it. In Nubia, which is Athiopia by Agypt, there is a grain that swallowed will kill living Creatures. A tenth part of it will kill them in a quarter of an hour, Scalig. Exerc. 153. f. 11. In Banda an Island of the Molucco's the Nutmeg growes, and it is covered with a cup for a shell, when 'tis ripe it is all covered over. Under the first covering the shell is not presently that covers the kernel, but a thick skin which the Arabians call Macin. The Olive-Tree if it be cropped at the first budding by a Goat, growes so barren, that it will never bear by any means; but if there be any other cause, the certain cure is, to lay open their roots to the Winter cold, Plin. 1.7. c. 14. The Olive and the Oak fo difagree, that one planted by

That

the other will thortly die. The Lees of oyl mingled with Lime, if walls be plaistered with it, and the roofs, they not onely drop down all adventitious humours that they contract, but neither Moth nor Spiders will endure them, Mathiol. in Diofcor. It flowereth in July, the flowers coming forth by clusters. From whence grow first green berries, and they are pale as they grow ripe; then they become a full purple colour, and lastly black. They are pulled in November and December, then are they laid in pavements till they become wrinkled, then are they put in under a militone, and are pressed out with presfes, pouring scalding water on, and so they yield their oyl. The wood of the Tree burns as well green as dry. At Megoris a wild Olive Tree stood long in the Market-place, to which they had fastned the Arms of a valiant man; but the bark grew over it, and hid them for many years. That Tree was fatall to the Cities ruine, as the Oracle foretold, when a Tree (bould bear arms: for it fo fell out when the Tree was cut down , Spurs and helmets being found within it, Plin. l. 16. c. 29. The Olive Tree lasts 200 years, Plin. 1. 16. c. 44.

CHAP. XXXII.

Of the Palm-Tree.

FIGURE fay that the female Palm-Trees will bring forth nothing M without the Males, which is confirmed when a wood growes up of its own accord; so about the Males, many females will grow enclining toward them, and wagging their boughes. But the male with branches standing up as it were hairy, doth marry them, by the blowing on them, and by standing near them on the same ground, Plin. 1, 13. 6.4. When the Male is cut up, the females are in widowhood, and archarren. Hence in Egypt they so plant them, that the wind may carry the dust from the Male to the Female, but if they be far off, they bind them together with a cord Pontanus reports, that two Palm-Trees, one fet at Brundusium, the other at Hydruntum were barren, till they were grown up to look one upon the other, and though it were so great a distance, yet they both did bear fruit. Dalechamp. ad lib. cit. Poets write thus of them:

> A Tree there grew in large Brundufium Land, A Tree in Idumaa much desir'd, And in Hydruntum Woods one rare did stand, Like Male and Female, 'tis to be admir'd : On the same ground they did not grow, but wide Asunder, and they both unfruitful flood. They many leaves did bear, nothing befide; At last they grew so high, above the wood,

That of each other they enjoy'd the light. Then they grew fruitful, like to Man and wife. Each in the other feem'd to take delight, And to be partners each of th'others life.

Cardanus reports, that in Data a City of Numidia, there was a Palm-Tree, the fruit whereof, unleffe the boughes of the flourithing male were mingled with the boughes of the female, the fruit was: never ripe, but were lean with a great stone in them, and by no help could they be kept from confuming; but if any leaf or rind of the male were present, then they would grow ripe. Philo. L. t. ide vita Mofix faith, that the vital force of it is not in the roots, but in the top of the flock, as in the heart, and in the middle of the boughts, that it is guarded about with all, as with Halberdiers. There is a kind of Palm-Tree growes in India, out of the stock whereof, the boughes being for that purpose cut in the moneth of August, a liquor like wine runs forth, that the Inhabitants receive in vessels: unlesse it be boyled, it growes fowr after 3. daies, Mathiol, ad l. 1.c. 126. Boyled, it is converted into most sweet honey, which afterwards is resolved in water, in 20 daies it is strained forth artificially, and so clarified it will last. But the Palm-Trees which Dioscorides calls Thebaica, in time grow fo dry in the Sun, that they are ground to make bread of them. Thever speaks of a Palm-Tree that yields wine in the promontory of Athiopia, which is the fairest fort of Palm-Trees for height, and for being alwaies green. They cut it 12. foot above the ground to draw forth the juice. They let it run into Earthen veffels for their daily drink; and to make it keep, they cast in a little salt. It is like white Wine of Campania in colout and fubstance. Linschoftus 1.4. America nova c. 26. reports; That in a place of the west-Indies, called St. John de portu divite, there growes a' Palm' Tree that every moneth brings new leaves, and is loaded with Cocker-nuts. Pierius in Hieroglyph. faith it is an Emblem of the year, because this Tree alone at every new Moon fends forth feveral branches.

CHAP. XXXIII.

Of the Plane-Tree, Apple-Trees, and the Tree called Pater-Nofter.

old they gave fo much honour to the Plane-Tree at Rome, that . They infused the roots in Wine a long time to preserve them: In the Island of Candie there is one that never loseth it's leafs, plin. 1.1. c. x. But there is a noted one in Lycia, by the may fide, that is hollow like a house, the hollow cave in it is 8 1 foot wille, it thath a moodly top, and past bolighes, like great Trees; it overshadowes the fields with its far casting that

dow: and that nothing may be wanting to the likeneffe of a Cave, there is a (tony circumference within that is full of mossy Pumex stones: the miracle is To great, that L. Matianus that was thrice Conful, thought fit to divulge it to posterity, that he and 18, more feasted in it. If Apples in winter be kept amongst Grapes, they so corrupt the Grapes, that they presently wither and corrupt. It is reported, that if a woman with Child cat Oninces, the thall be delivered of an industrious and witty child. Ciron Apples keep garments from Moths and Worms; how good they are against poylon, you may know by examples out of Atheneus. A Cirron Apple hath cured some that were stung by Vipers. They keep longer uncorrupted, if they be put into a heap of Barley or Miller. They cure Scabs, if they be cut in the middle, and powder of Brimstone be finely strewed upon them, and they be rosted in hot Embers, and to the Patient be rubb'd therewith. Apples of Sodome are fair to fight; but touched, they fall to ashes, Solin. c. 36. In Hispaniola there is a Tree called Pater noster, the fruit is as great as a Hafel nut: put this in boyling water, and dip a linnen or woollen Cloth in it, it will be died gallantly with diversity of spots, but it corrodes with its over-great force, Overan. 1.9. c.1.

CHAP. XXXIV.

Of Pepper, Plantain, Pimpernel, wild Tanfie, herb Paris, and Paper.

Ound black Pepper growes upon some weak branches like tenderels, that creep up to the tops of Trees by them, clinging about them. It growes like the fruit of the wild Vine in clusters, flourishing close together of a green colour till it become dry; which when it doth, (as it doth in Ollober) it is gathered, and laid upon Palm-Tree coverlids in the open Sun to torrifie, and fo it becomes black and thrivelled, Muthiol. 1. 2. Diofe. c. 153. The root of the greater Plantain put in a little bag and bound with a thread near the Region of the heart, preserveth a man from the Plague, Scholting relates it for a certain remedy out of Monavius, Epift. 268. Pimpernel was found out by Prince Chaba, for with this alone were cured 5000 wounded Hungarians, after the battel, Cluf. in Nomen. Pannon. Accped in hot water it is approved for to cure a continual Feaver. It hath so great force against the disease called Hydrophobia, that whofoever thall use it betimes in the morning for some dayes, in Sallets. or otherwise, after he hath been bitten, shall find no harm, Fernelius. Wild Tansey applyed to the palms of the hands, and soles of the feer, abates the heat of any Feavert, Mathiol, in 1.5. c. 37. In the berries of Herb Paris, there is found feed, that hath great vertue against Witchcraft. Some grow sottish by Chronicle diseases. others by Witchcraft, If these drink the seed, one dram, for 20.

days they are cured. Paper reed growes in the Lakes of Ægypr, or where the waters of Nilin have run over, and stand still, and are not above two Cubits high: the crooked root is as thick as ones arme, it hath triangular sides, it is not above ten Cubits in length, it runs up fpire wife, like a lavelin . Plin. l. 13. c. 12. The Ægyptians made matter to joyne their Ships to ether with the infide of this bulrush, cutting off the tops of the reed; also they made Sailes and shoes of it. Herodot, l. 2. Onely the Priests wore those. shoos, as Arift. writes. They were wont to fell, and to eat the lower part, of about a Cubit in length, and they were exceeding, fweet, when they were torrified in an Oven. This was the chief meat of the Ægyptians, hence was the original of Paper. Dale, champ. adl. 13. Plin. c. 11. A CONTRACT OF THE PROPERTY OF THE PARTY OF T

Of the Oake, Rhubarb, Rape-root, and Rofa-folis rates that at draps. Later

TN MaritaniasOaks beare a long Acorn that tafts sweeter and more delicate than Chestnuts. Scaliger Exerc. 181. f. 264 de de la company

The land of the shore of Sinns Pucieus is Rocky ; and the Clods of Earth are bituminous: there grow upon them pale shtubs, scarce a foot high. They have a kind of Okes, and Box. Trees, but they have no root. Scaliger saw one that was without knots and ftraight, 75, footlong. There were 30 Crowns offered for it. Scalig. Exerc. 168; A little above the Cauchi, Pliny, lib. 16.c. 1. writes that there were mighty ones, by the banks of two Lakes, which being either undermined by the waters, or blown down with the wind, pull'd up great Islands with them that they grew upon with their roots, and fo standing equally ballanced, they failed, being furnished with huge boughs. They oft terrified the Roman Navy, when as they were driven by the Waves as it were of purpole, and feen by those that kept watch on the decks. There was one in the Country of Thurirum that never cast its leaves, yet never budded till midsummer. Rheubarb grows only in China, and is brought by Ufelech into Turkie, and, to to Venice; The vertues of it are faid to be notable, and they bring an example of an hydropick person, who having been in exceeding great danger, by the use of Rhubarb he was cured, and lived to be a very old man. Adolph. Occo in Scholtii Epift. The same man received a mortall wound by his Servant, after his disease, and the Chargers. ans expected he would dye in four days, or feven at farthest; herecovered, by Rhubarb, next under God. One writes thus of it; Gamevar.Cent. 8. in 5 1.

Rhubarb is hot and dry 3 the belly binds;
And opens Children, Women great with Child May fafely use it, tis good for all kinds. Opens Obstruttions, and gives purges mild,

From the small feed of Rhubarb in 3, months, so great a root grows char in fome places it weighs 100 pound weight, Mathiol. in l. 2.c. 104. Mathiblis law Turneps in the Country of Anamum, that one of theffe weighted 30 pounds. Those that are sowed in Summer, are free from Worms, mingling furt with the feed when tis fowed; or elfe Recorde feed a night in the juyce of the greater housleek. It hath been proved, Columella. By Harlem, Anno 1585. there was one dug up like a Mans hand with nails and fingers exactly. I saw the picture of icar Leyden with Cl. Bundarcius. Ros folis, or Sun dem, which finnes under the Sun like a Starr with his beams, hath its name from its admirable nature for though the Sun in fummer shine long and hot upon it. ver the leaves of it are almost alwaies wer, and the down of them is alwaics full of drops. And which is admirable, that moysture that is contain'd in the cups of the leaves, fo foon as you touch it with your fingers, while it yet growes on the ground, or else is pulled up prefently, and held in the Sun beames, is drawn forth by and by into white threads like Silke, which harden immediately, and fo continue ever after Camerar cent. 8. memorab. 98.

Million of the CHAP. XXXVI.

Of Crow-foot, Rue, Rofe-mary, Rofe-root and rofe-Tree.

Rowfoot, if Men cat it, will cause Convulsions, and draw their mouthsawry. They feem to laugh that dye with it, Paufan. Also Salustius speaks of it: In Sardinia, faith he, there grows an herb called Sarden, like wild Smallage: this contracts the Mouths and Taws of Men with pain, and kills them, as it were, laughing. Rue resists Venome, therefore a Weasel will carry it, when he sights with a Serpent. It is of a mighty greatnesse at Macheruntum, Joseph. 1.7. de bell, Juddie. c. 25. It was as high as any Fig-Tree, and had remain'd from the time of Herod. It is a fingular remedy for the Epilepfy, as a Country man found by accident. Camerar Cent. 3. Memorab. 36. He Bruiled it; and with the finell of the Rue he ftopt the note of this Epileptick person sallen, and presently he rose up:

Refemary grows so plentifully in France that they burn it, To thick that they make Tables of it. It flowers both fpring and fall, Mathiol. 1. 3. c. 37. Barelay, in his Icon animarum. c. 4. writes thus of "it in England:Rofemary in many Countries is costly ly the very paines is ufed about it to therish it; here it is common, and fomtimes fer ves to make hedges for gardens. Rhodium root is the most lively of all roots; for dug out of

the earth, unlesse it be laid up in very dry places, if it be planted again after many Months, it will grow. It grows on the highest Rocks where it hath fearfe fo much earth as to flickby, Mathiel. 1,4. c. 41. The Rosebulh at Carthage in Spain is alwaiss full of Roses in Winter, and was alwaies honour'd by the Romans of for they were wont to strew the leaves on their dishes of meat, and to befinear their Citron Tables with the juyce of them, that they might by reason of their bitternesse be free from Worms. Heliogabalus commanded to throw Roses on his Banqueting quests from the top of the Room, as if it rayned Rofes. Dalechamp in 1. 21. c. 411 That is wonderfull that is related concerning revification. There was a famous Phylinian an Cracovia, who could fo curiously prepare the ashes, offevery narrolf a Plant; that he would exactly preferve all the Spirits of them. The athes waxing a little hot by putting a Candle to the Glaffe, represents ed a Rose wide open, which you might behold growing by degrees it to angment, and to be like a stalke, with leaves, flowers, and at last a double Rose appeared in its full proportion; when the Candle was taken away it fell againe to afthes. Rofenberg Rhodolog, c. ult. The fame thing allmost was done with a Nettle, as Quercotan testifieth in his History of the Plague. For when one would appoint a remedy against the stone: at the end of Autumn he pull'd a great many. Nettles up by the roots , of thefe Nettles he made a lye the common way with hot water, and by strayning and

Chapan Of Scorzonera, GC.

of Nettles were in it, fo perfect with roots leaves and stocks, and shewing so exactly, that no Painter could paint them better. CHAP. XXXVII.

filtring, be parified this livinium, that he might at lash produce fall artis

cially as he intended : but when he had fet the lixivium all night 10 pool in an

Earthen Ve Bel, the next day when he thought to Evaporate to extrast the Salt. it hapned that night, that the ayre was fo cold, that all, the Lixivium was over frozen. When therefore in the Morning he purposed to cast that

Lixivium out at the Window, besides his expectation he saw that all the water of the Lixivium was frozen, and a thousand figures there

Corzonera is no ancient Plant, Mathiolus first described it, I. s. De. 137. It was found in Gatalonia by an African fervante her that found it, thew'd that it was a present remedy against the birings of Adders the that will escape, must drink the juice. Of squills, vinegar is made, of an admirable quality, faith Mathioly, if one daily drink a little; his jawes and Mouth will never be ill, his fromach will be well, he will breathe well, see well, he will be troubled with no wind in his belly, and will be well coloured and long winded. He than yorb this vinegar will digert his mear well, though he gar much to There will be no crudities in his body, not wind hot cholen,

Mathiol. in 1. 2. c. 168. Of Sage they fay, that it stops the flowing of the courses, if one smell to it; and caren by one with Child, it will retain the child, and keep it lusty, Mathiol. in 1. 3. c. 34. Hence it is that Aerippa calls it, sacred. If a woman drink a Hemina of the juice of it with a little falt the fourth day the hath abstain'd, and lavn alone, and then lie with her husband, the will conceive. It is reported, that in Coptus of Egypt, after a great plague, that the women drank ir, and did bear many children. In many places of Afia they bear Apples ; In Calabria of Confentia, Scaliger faith, Exerc, 168, that one did bring forth a gall of an Ash-colour, and that he saw it. Dead bodies are preferred by touching Scordium, Galen. l. 1. Antidot. For the dead bodies of those that fell upon the Scordium of Crete after they were flain in the War, did corrupt least, especially on that part whence the Scordium had touched them. It if it be boyl'd in wine, it is good to drink against stinging of Serpents, Conft. de Febr, peft. CHAP. XXXVIII. c. 18.

Of Nightshade.

Fire are many kinds of Nightshade: amongst these are Winter Cherries, the fleepy Nightshade, the greater and the spungs Nightfhade; they feem to have fome strange things in them. Halieacabum is such an enemy to Vipers, that if the root be near them they die with deep fleep. Vestrarium hath long leafs, white flowers out of which come forth green round bladders, with fix divisions Yong waies, the feed within is murry colour, as great as Orobus; in the fide of it is the figure as it were of a mans heart, with a white colour. Nature framed it fo, that we might know it was good for the diseases of it. Sleepy Nightshade, tasted causeth sleep; the Danes found that, by their example. For when by Sueno King of Normay belieged Duncanus King of Scotland in the Town of Perth; He calling forth Maccabaus his Coufin-german, began to treat of surrendring up the place, and provision, Hellor. Boet. 1.12. Scot. hift. The Danes accepted the conditions, and took what provision they had; but so soon as they had tasted of it, they were all so oppressed with sleep, (for their wine and beer were infected with Nightshade) that Machabaus vanquished them. Ten of them suspecting the gifts of Enemies were fafe. These carried King Sueno like one that was dead, in a Fishers Boar to the mouth of Thais, and so home, The room of the Ercater Nightshade dryed, if half a drain of it be steeped in wife. foven dayes, it will fo infect it; that if any one shall drink it frain'd, he can cat nothing; let him drink vinegar and it is presently gones but if you take it too largely, it will frangle you, Francifeus Caleto-Paris of Verma was the first discovered this feoret, and revealed, it to others, Mathiol, in 1.4. t. tit. Of the tuberous Night hade, the root

Of Mastard, ov. Chap. 39.

is spungy, sometimes as great as ones fift, as long as ones hands where the falk rifeth, many fibrous roots come forth, that are forcad on the ground; from these at the beginning of the spring; come up other falks, and other bulbous roots grow with them, and it will propagate fo many roots, that for one plant dug up in the Winter time, Baubinus (ad loc. cit. Dioftor.) observed, that there were above 49 bunches belonging to it.

CHAP. XXXIX.

Of Mustard, Satgrium, and the greater Saxifrage.

Mis a safe experiment; for supldity proceeding from more ure. Horst. 1. 2. de fanit, tenend. r. t. Where the Uvula is fallen, this fawce will draw it up presently. Pythagoras esteem I of it, because besides preserving ones health, it ascends high, into the closer of rea-Ion where the mind tesides. Panfa, Theor. fpu, de pror. vit. c. 51. faith thus; I commend the infusion of this in sweet wine to all Scholers; chiefly in winter time. For it hears all the body, opens the mesaraick veins, and promotes the Chylus toward the Liver: For there is nothing better than to have a loofe belly, and that helps it felf. Satyrjon is very good for venery, only touched. Theophrasia faith; it was proved To times in an Indian that brought it, and x2 times in others that touched it. Cynesorchie is like to this, whose greater koot is full of flatulent matter, and caufeth luft, the leffer teltrains it. . Great Sagefrage growes in Mount Baldus coming forth of a firm flard hole, and old walls of Cities, Mathiel. ad 1. 4. c. 15. The root dicks to fait in rocks, that it cannot be pulled out but by thatp Irons ; It is good to drive our stones; by the drinking thereof abundance of stones were driven forth at once, and they were as great as Beans.

CHAP. XL.

Of the Turpentine, and Frankincense Trees.

Arpentine Trees, are one male, the other female, Theobhraft. 1.3. 1. c.25. The Male is barren, the semale brings forth a red stuit, as big as a Lentil, which cannot be digested; Another kind of female brings forth green frill, and it growes red afterwards ; And last of all, like the grape, as it growes ripe, it becomes black, and is as great as a Bean. Egisspus 1:4. c. 3. de excid. Hierofol. writes, that in Memphis there was a Turpentine-Tree, that was fet at the making of the World; and it was there in his dayes. Frankingense is bird in Arkbia in a private place althost in the middle of the Country, beyond the Aramites in the Lind of the Sabrans. The Minar Wele the fifth

that found it out; and it is reported, that onely 300 Families have interest in it, and they keep it by succession. The people that are their Neighbours call them facred. For when they cut the Tree, where the liquor runs forth, or when they gather it, they neither come at Funerals nor their Wives. They were wont to gather it. by cutting the bark of the Tree, at the rifing of the Dog-star, because then it was most full of humours; that which dropt out of the Tree was received in a Palm-Tree covering, Scaliger Exerc. 49. It is there so cheap, that they carine ships with it instead of Pitch. But of Frankincense is made the best Medicament for blear and red eyes. It is said to cure in one night, Mathiol, ad l. r. c. 73. Dioscor. A piece of Frankincense is put on a tharp point and burned; in a wax candle, then it is quenched in 4. ounces of Rose water; this is often done even to 30 times, then the water must be strain'd with a clean cloth, and the corners of the eyes must be anointed with a feather digt in it. when the fick go to bed. If rednesse and tears increase with great pain, breast-milk will cure them, if you wash them therewith

CHAP. XLI.

Of wheat and Thyme.

Here is nothing more fruitful than wheat; for of one bushell if the ground be good, as in the Country of Bizacum in Africa. there will come 150 bushells. Plin. 1, 18. c.7. saith, That the Provider fent to Augustus, that grew from one grain ('tis hardly credible') 400 cars near upon : also he lent to Nero 340 strawes that sprang from one corn. The Fields of Leontini in Sicily yield 100 increase. In the Country of the Senones by the Sea fide, one root hath born 24 cars, and one buffiell hath fomerimes afforded an hundred, Mathiol. int. 1. Diofcor. c. 78. In Afta beyond Battra, in a certain place Theophraftus writes it growes fo great, that every grain is as great as an Olive Stone, Theophrast. 1.8. c.4. But he addes, that in Pissoris it is so strong, that he that cats too much will burst. The Indian Wheat hath a stalk like a Cane, that hath a white pith in it, like to Sugar-Canes, in the top whereof it puts forth branches divided and empty. The fruit wherein the Corn is thut up in thin covers, come forth of the fides of the stalk. The Ear is as great as the apple of the Pitch-Tree, there are round about it, clear white grains within as great as, Peafe, disposed of in 8. or 10, right lines on all sides. From the Top of the Cod, hang long shoots of the same colour with the corn, the Indians call it Malitz. It is steeped 2 dayes in water before they low it; nor do they trust it, untill it be wer with rain. They reap it in 4 months: but that which growes in Eubaa is ripe in 40 dayes, Theoghraft, lib, cit. Thyme begins about the Summer Solltice; and honey from thence is Increficial for Bees and Bee-musters, Theophraft 1. 6. 6. 2. "It it put forth, its flowers; otherwise, the making of holley doth not lucceed šitoža.

well, the flower periffecth if a thower fall. There runs oyl from it of a golden colour, when the herb is distilled through a bath of hot water, when it is green. It taftes like a pome Citron, Mathiel. in 1.3. Diofcor. 6.37.

Chapta2) Of Tobacco, and the

The second second CHAR XLIL

Obacco, or Nicotiana from the finder of it, is called also the holy Herb, the Queens herb, the herb of the holy Croffe, and Petuing It is well known to them that know the Indian Merchandife, and those that have smelt the sume of it in Britany, France, and the Low-Countries. It is fowed when the Moon increaseth, and cut down when the decreafeth. There is one kind call'd the Male, with a broad leaf; and another called the female, with anatrower leaf, but a longer stalk. The least feed of it falling of its own accord, lies safe in the coldest winter; and the next Summer, being carried into many grounds with the wind, cometh up of itself, Camerar, inhort. Nearder in Tobaccolog. From the feed of the male, they fay the female will foring, if it fall into a ground where Tobacco grew before; and that fo fruitfully, that it will yearly grow up of it felf. But it will not endure the cold; but if it be well preserved, it will like Citron Trees continue all the year, and remain 4 years without damage; Monardus de simpl. medicam. As for the forces of it, it will cause thirst, hath an acrimonious taste, it troubles the mind, and makes head-ach. Neander. They that drink it too greedily, have fallen down dead, and stupisted for a whole day, Benzon, I. 1. a. 26. hist. nowearb. Hence it was that King James of famous memory King of England write Mifocapnos. For he supposed it weakned the bodies of his Subjects. Yet many famous men have written high commendations of it. The Spaniards fay, it refifts poylon. For when the Cannibals had wounded them with poylon'd darts, they oured themselves with the Juice of Tobacco, laying on the bruifed leafs, Atonard, loc. cit. The Ca sholick King made tryal of it on a Dog, wounded with a venom a weapon, and it cured him. Heurnius writes, that it oures perfectly the pain of the teeth, and takes away all the dolour, His words arely When I was vehemently pain'd with Tooth-ache about a year fonce, I loylett Tobacco in water with some Camomil flowers, and I held a spoonfull of the warm decastion in my mouth. I Spit it forth, and used this for two bourets the pair abated : The next day (laith ho) I went to my Garden in the Subburbs as I was wont to do, and bending down with my head to pull up forie Graffes there ran a mossture out of my nostrills; yellowus Saffron; it smelt like Tobaccos and all the pain of my teeth was gone. Never did bloods nor any thing but a flegmatick matter run forth of my nofe in all my life, and it never faw any deeper yellow, than what ran now out of my nostvills. That it reffores the fight, see wiburging ad Schniew. Bpift. 2091. A certain Maid

Maid had the pupil of hereye covered; he with the juice of the best Tobacco boyl'd to an unguent with May butter; and anointing the Eye outwardly with it, the eye being shut, essected so much, that none could discern it but those that stood close by. Clusius saith, That the Indians use to make pills with the juice of it and Cockle shells bruised, that will stop their hunger for 3, dayes. It is no wonder; for by resolving of slime that falls upon the stomachs mouth, it abates the appetite. Caster Durantes in an Epigram describes the vertues of it, thus:

An herb call'd Holy Crosse doth help the sight, It cures both wounds and Scabs, and hath great might 'Gainst Scrophulous and Cancerous Tumours, Burnings, and wild-sires, repressing humours; It heats, it binds, resolves, and also dries, Asswages, pains, diseases mundises. Pains of the Belly, Head or Teeth with ease It helps, old Coughs, and many a sad disease Of Spleen and Reins, and Stomach, and more parts, As womb, sore Gums, and wounds with venom'd darts Are cur'd thereby, with sleep it doth refresh, And covers naked bones with persect slesh: For Breast and Lungs, when that we stand in need, All other herbs Tobacco doth exceed.

CHAP. XLIII:

[Of Trifoly, Teucrium, Thelyphonon, Yew, Thapfia, and Thauzargent.

Rifoly foreshews a tempest at hand, for when it is coming it will I rise up against it. It hath been observed that when this hearb hath plenty of flowers, it portends many showers and frequent inundations that year; and a few flowers, shew drinesse. Fuchs. in herb. It is called Cuccow bread, either because she feeds of it, or because it comes forth about the time the Cuccow fings; feven times in a day it hath a sweet smell, and seven times in the day it loseth it But pulled up it always holds it, and when a showr is coming, it will smell To sweet that it will fill all the houses, Teucrion otherwise Hermion neither beares flowers nor feed. It cures the Spleen, and they fay it was so found out Plin. 1. 25. c. 5. when the entralls were thrown upon it, they report, it fluck to the Spleen, and drew it empty, It is faid that swine that feed on the root of it, dye without a Spleen. Thelyphonum hath a root like to a Scorpion, and put to them it kills them; but if you strew white Hellebour upon them, they will revive again; it is fearce credible. Theophraft, 1.9. c. 19. The rem brings forth berries that are red, and like red Wine; they that ear them fall into Feavers and Dysenteries. Cattel will dye if they eat the leaves of it, and do drivel. Theophrassus writes it 1.3.c. to. but Pliny comfutes it, 1.16.c. to. It is so Venemous in Arcadia, that it kills such as sleep under its shadow, Overand Sum, c. 78. In India it makes the eyes and mouth of such as sleep under it to swell. Thap, stagrows in the Athenian land. Cattle bred there will not touch its but strange Cattle will feed on it, and there follows either a scowfing or death. Theophrassus, 1.9.c. 22. It grew samous by Nero: For he, when he had his face bruised by his revellings in the night, he annoynted it with Thapsia, wax, and Frank insence, and beyond expectation it was whole the next day. For it wonderfully takes away bruised marks. Plin. 1. 13.c. 22. Thauxangent is a root in the Vestern Mauritania of so good smel, that a smil quantity hanged about the roof of the house will make a gallant persume. Scalig. Exerc. 142.s. 6.

Of the Vine.

CHAP. XLIV.

Of she Vine.

Thes are fomtimes infinite great. For in Campania, those that grow neere the tall Poplar Trees , run . up by the boughs of them . with their joynts, till they come to the top, fo that he that is bound to gather their grapes, is in danger of his life. Plin. l. 4.c. 1. Pliny faith, they will not easily corrupt. For the Image of Jupiter in the City Populonia ? remain'd there many yeares uncorrupted, and the Temple of Diana of Ephelin, had staires to go up to the top, made of one Vine of Gyprin. Some of them do yeeld feuit thrice a yeare. Dalechampius faw it in many places; at Lyons especially, in the Garden of Guilet Caulius! They are called mad Vines. Dalechamp, adc. 27. fo 16. Plins At the end of the Spring they fend forth smal flowers like Starrs, fer about with round scrapings like Silver, of a subspiceous colour; These being fallen off like to a little Starre , presently appear the olusters of Grapes, Lemnius in herb bibl. c. 2 The fmell of them drives away Venemous Beafts; the water that runs from the Vine, when it is pruned, heals Scabs. Some catch it in a glasse bottle, and fet it in the Sun a whole yeare, in the open ayre free from rayn, Aclast a honey substance congcles, which is of as great vertue, as balfome. Por it cleanfeth; fills with floth, conglutinates, takes away spots. Water distilled from the reader leaves of the Vine in May, is good for women that long; They fufferno harm, though they want it. Sennerost, a: p. 2. c. 2. Trom Grapes, Wine is preffed that we drink. The veftues of it are divers'as the Wines are; Lamn, deoccult, 1, co 16. The Wines of Poisson make men previou and froward (for the Vapours of it prick the braine) but your Rhenish Wines are more gentle. In the Country of Govillamithe Wine is highly commended, and west to that, is the Wille of specinum and Vipacum, Mathielus, whon he had a long time paines of the Stomach, by experience found the force of it. Livis

Livia Augusta, owedher 82 yeares of her life to the Wine at Pucinum, Plin 1. 14. c. 6. The Country people that inhabite Japidia, because they drink Wines neere Pacinam are seldom sick. Galen de Theriaca, faith, that the best never grows sowr; and Pliny writes that some have lasted 200 yeares; when it is corrupted it becomes Vinco gar, the natural heat being refolved. It is of an excellent vertue. For it hinders tempelts, and the ruine of Sailers, and diffipates the family ayre, fusfering no humours to corrupt, Plin.1.2.c. 48. Pearls are tune d into Powder by it, as we have an example from Cleopatra, who objected to Antony that the alone would fpend at one suppera hundred thousand Sestertii: and she took a Pearle out of her care, the like was not found in the East Indies, and put it into a fawcor of Vinegar, and when it was diffolved the drank it up; Plin.1, 9., c. 35. Aqua vite is also made of it, which is otherwise called Elixir, the Golden water, the Heaven of the Philosophers, the quintessence, the Soul of Wine, the Divine water, and the Philosophers Key. Canonher de admirand vini. 1.1. c.5. Physitians write wonders of it, which are impossible for ignorant people. It is thin, and the best part of it will flye into the ayre, that you would wonder at it. For the heat of it, kept inwardly by help of the motion of the Ayre, refolves the thin substance, into a Vapour. Cardan. de Athere. Things steeped in it, in 24 hours lose their vertues, Heurn. l. 1. prax. Medic. It is an Antidote for all things, Mathiol, in Diofcor. 1.6. and not only drank but sourced out of ones mouth into anothers face, it recalls Epileptick and hystericall persons, restoring lost speech, Antonius della Scarparia, when he was 80 yeares old, faid, O Aquavite 1 for 22 years I one my life to thee. Savanarola of the art of making Aquavitie simple and compound. Francis the first, Duke of Mantua was much delighted with it: for having a cold Stomach he was troubled with wind. His words are thele, That he had tried all remedies, and found none fo good is Aquavita, Canonber loc. cit. Quercetan shews an unusuall way of trying wine, in Directica in thefe words : All the Gafcony wines that must be transported by Sea, are brought to Burdeaux, there they are laid in wine-Cellers for publick use, that are wonderfull long and broad, so that they may be truly called the wine-Market, without the City alittle way; and there they are fet in close order only a place is left between the ranks to draw wine at. The Merchants that come to buy wines and are cunning, care not fo much to talle the wines that are good, but they will go over all the wine-Veffels, and fo they can tell lytreading on them which are the most spiritful wines, and lightest, and those they feal. For they go lighter and nimbler on the lest wines than on. the groffer and more earthly wines, for they make their paffage more heavy. There be wonders of it in Pliny 1. 14.0. 18. In Arcadia it makes wo. men barren, and men mad. Theophraft. 1.6.c. 19. In Achaia it caufeth. abortion; if Bitches, eat Grapes they cast their whelps, Vistor 1, 7, c,

23. They that drink Trazenium; lofe their generative faculty. In

Thafias one kind causeth sleep, another makes men wake. In Ægypt,

the Grape is sweet and purgeth the belly , in Lycie it binds it,

CHAP. XLV.

Of Xaqua and Zuccarum, or Sugar.

Agui is a Tree in Hispaniola; The fruit is like to Poppie, and a clear white water runs forth of it, and what foever is forinkled with it, grows like black, fo that no wathing will make it clean. In 20 dayes it parts from the rind, of it felf. Quetan Summ, c. 77. There are two kinds of Zuccarum, one from Canes, another from an hearb; There is another kind from an Indian Tree, called Heofeer. Scalie, Exerc. 164. But this is scarce Sugar, but the thinner part of milk compacted by hear, which falling forth of the buds and roots of the leaves, thickneth into a gum. They fay the fruit is like to Camels Testicles; Out of any part of the Tree cut, Milk runs forth so hor, that it is held for the best meanes to take off haire. The Inhabitants make their skins smooth with this. There are two kinds of the true one is got out of Canes two ways, for either it is pressed out and boyled to the whitenesse of Sugar; or it comes forth of it felf from the reeds, like teares. From the Indies formerly they fent it, fo gathered with their other Merchandise. That which is called Sugar-Candy was carried about, in reeds. Histories testify, it was made naturally. For at Dathecala in the Indies, it is fold for Merchandise. In St. Thomas Island, the reeds yeeld it every Month. In the fifth Month they are ripe, and are cut down, and are grund and pressed for the invce: what remaines is given to Fowle and Hogs, and it will fat them wonderfully, and it will make them to tender and delicates. that no hens flesh can be better, for those that are sick, to feed on. Another kind of Sugar, Iweats-out wonderfull strangely. The Arabians and Agyptians call it Tigala. They fay a little Worm doth cate the hearb; whence Sugar swells forth, and grows together in little peices. It quencheth thirst, is good for the Chest, and takes away a Cough.

CHAP. XLVI.

Ature is rich; and her riches are so various, that they not only delight our understanding but exercise our industry. Truly besides what we have faid, there are many wonderfull things. In the Island Tylos, there are Trees that beare Wool, and their fruit is guords, as big as Quinces: these breaking, when they are ripe, shew balls of Down or Cotton, of which they make pretious linnen garments; Plin. 1. 12. c. 10 In great Java they fay there is a rare Tree, whole pith is Iron: it is very imall, yet runs from the top to the bottom of the Plant. The fruit that grows on it, is not to

162

be pierced with Iron. Scaliger calls it , Exerc. 181, f. 27. Mulgorid news In the Island Cimbubon there is another whose leaves, tallen down upon the earth, do move and creep. It hath leaves like the Mulberry-Tree. They have on both fides like two little feet; preffed, they yeeld no liquor. If you touch them, they flye from you. One of them kept 8, dayes in a dish lived, and moved so oft as one touched it; Scalig. Exerc. 112, in Malavar there is a plant that contracts it felf, if any one puts his hand to it; and if you pull back your hand, it recovers it felf again. Garzius abhorto. That which he described from Coffa, under the name of Mimofa hortenfis, put your hand to it, it withers; take it away, it grows green again. The fame Authour fays that there is a certain Tree that is full of faire sweet flowers all night, but so foon as the Sun rifeth, it withers: yet whatfoever this is, it may be ascribed to the tenuity of the Spirits of it. Bur Linscher saith, there is one that is contrary to this. In Virginia there is an hearb that the leaves are good Silk, and they take it off like a thin shining Membrane. It is two foot and a half high, the leaves are two foot long, and half a foor broad. In England, there was made a triall of this in weaving. For of this plant the whole Web made, was filk and approoved for good. Arioth in Verginia, In America there is the flower of Granadilla, in which may be seen the instruments of Christs passion, the Nails, the Rod, the Pillar, the Crown, the Wounds. Mejerde Annat, Scoticis. That Libav. 1.4. de orig rer. asctibes to Imagination, And, faith he, afriend of mine hath a Cherry-ftone, upon which may be feen 120 faces. In the Morthern Island there are Rocks of Loadstone. If Beeches grow upon them, they are turn'd into Loadstone, Olam, 1, 2. c. 1. There is also in Musicanum an Indian Tree extreme high, the boughs of it are above 12 Cubits long, and it not only grows downwards of it felf, but it fastneth in the ground of its own accord, and roots anew, and from thence arise new Trees; the boughs do thus bow down also, and cause more Trees, and thus they will grow in ranks, that they will make an Arbour for 400 men to walk under. Not far from Malaccathere is another, that hash many roots, and as they divide severally into parts, so are they of different vertues. For those parts that look toward the East arean Antidote against poyson, tut the parts toward the West are poyson. Senar, res, p. 4.c. 17. A certain fiery root cut in pieces, if it be fet right over against a burning Candle, at first it makes it blink, and at last it puts it out, and that hath been often proved. Biker in. proph. f. 2. There was a fire Tree very admirable, seen in a Ship, which brought it from Ægypt by the command of Caius the Emperour. There was a foursquare obelisk ser up in the Vatican, and he brought four blocks of the same stone to support it. The thicknesse of that Tree was as much as four men could fathom. Plin. 1. 16. c. 40. The root of the hearb Aproxis takes fire a great way off, Plin, l. 24. c. 17.

From Trees in India, as high as Cedars or Cypresse Trees; and with leaves broader then Palm-Tree leaves, (they are called Carpien) an oyle distills that is taken with wooll pressed against the Trees, and

you may smell it five surlongs off. In the same Authour we read of the Tree Purebo that grows only in Kings Gardens; it is as great as an Olive Tree, without flower or fruit; but under the earth the roots are as thick as a mans arm. Nine inches of it will draw Gold, Silver, Brasse, Stones, or any thing but Amber; but an ell of it will draw Sheep and Lambs. The weight of an Obolus cast into water, will make it congeal; and wine also, that you may work it in your hands like wax, yet the day after it will resolve again, Libav. 1.2. debitum c. 6. this seems to be a stinking ly, if it be not well interpreted; but surely a Philosopher cannot want that interpretation: you shall find it loc. cit.

CHAP. XLVII.

Of wonders of Trees.

Ome are found that bear no leafs; And Pliny l. 17. c. 25. tells us Oof a Vine and Pomegranate Tree, that did bear fruit, on the body or stem, not on the branches or boughes; and of a Vine that had fruit without leafs; and of Olive Trees, that the berries remain'd when the leafs were fallen. We faid, that an Olive. Tree burn'd down quite, will grow again; and in Brotia Fig-trees eaten with Worms will bud again, At Paufania in Arcadia, the Oke and Olive Tree will grow both upon one root, Dalechamp, ad loc. cit. The fame at Corinth, called Hercules Club, from a wild Olive Tree, took root and grew again: When Xerxes came to Laudices, a Plane-Tree became an Olive Tree. A Tree fank into the ground at Cumanum, a strange thing, a little before the Civill Wars of Pompey; onely a few boughs. were to be seen. At Cyzicum before Mithridate's siege; a Fig-Tree grew out of a Bay-Tree, when he with 100000 men, and many horfes fought against that City, Strabo L.12. A green Palm-Tree was feen to .. grow up amongst the Tralles in the Temple of Victory under Cafar's Statue, where the stones joyned, and it was of a great bignesse, Valers 1, 1.c.6. Also at Rome, in the Capitol, in the head, (some explain that to be the top of the house) twice in the War with Perseus did a Palm Tree spring forth, presaging Victory and Triumph. When this was thrown down with Tempelts, in the same place a Fig-Tree grew up. When M. Melsalus, and C. Cassius were Censors, A. P. Sulpicius being Pro-Conful, Letters, were brought from Macedonia with news, That a Bay-Tree grew up in the stern of a Galley. Lastly, the year before this, in silefia a little Tree in the battlements of the walls of the Church was changed into a Palm Tree: Religion was changed after that. Not without being revenged; for the change of the Species gives us hope of it,

The kind of the Fifth Classis.

Miracles of Nature.

The Sixth Classis.

In which are contained the Wonders of Birds.

Seneca Natur. quæst. 1. 2. c. 32.

I so those things are not out of our power, which are immoveable, or for their swiftnesses equal to all the world, are like to things without motion.

CHAP. I. Of the Eagle.

dish at the Table, for none will eat it, but because it is the King of Birds. It is of the kind of birds of prey. The right foot of it is greater than the lest; the brain is so hot, that mingled with Hemlock juice, and drank in powder, it will make one mad. It drinks not, because it seems the blood of what it preys upon, sufficeth it. But in old age, when the Beak is crooked with drynesse; it preserves it self by drinking, Alian. They have been seen a cubic in largenesse, and some young one, whose wings stretched out would reach 7 less. The Claws were bigget than a great mans singers, and the thighes greater than a Lyons, Gester saith, that was seen at a place between Dreson and Mysnia: when it lyeth down it takes a stone called Listes, which because they grow so hot as if they boyled, doth temper their heat. When the young ones are hatcht, she holds them in her Talons against the Sun; and having proved them to be legitimate, she takes them on her wings and carries them.

throngest of them, when the nath them aloft, the lets them tall, and then the flies and meets them, and takes them up again. When theyare old enough, the drives them forth of her nelt and quarter. The female is fo falacious, that being trod 30 times in a day, if the male come to her again, the will run to him. It is fo quick-fighted, that flying over the Sea, out of mans view, it will differn the smallest fish: And as for its smell, it will slie to carcases 500 miles distant, It roars like a Bull; but the young ones are mute, because their tongue is hindred by moisture. It is an enemy to the Cranes: therefore when they fly over Mount Tours from Cilicia, they take Rones in their mouthes, and stop their clarying, and slye over it in the night. When the fight, bill, and wings fail her, the flyes above the Clowds, and there by the Suns heat the recovers her fight. She when fhe is become extream hot, plunges into the water, then the flies to her nest, grows feavorith, casts her feathers, is fed by her young ones, and renews her felf; but sooner, if she can find Serpents to feed

GHAP. II.

Of the Hawke.

Wille Hanke is of divers magnitudes according to its Sex and Country. The females are the greater, because their heat is leffe, Calent, in Epift. It bath a great heart that enclines toward the breast with a blunt point; the Miltis so small, that it can hardly be seen, Aristot. de part. animal. c. 38. It is full of teathers, which when it is young it casts 4. times. It is not very generative, for the over great heat thickneth the feed; also the moysture of it is sent to the feathers, the Tallens, and legs: yet it is so venercous, that the female will return 30 times a day, if the be required, Alb. 1. 10. c, 8. She flies from Carrion, and if it come to a mans carcafe, it will not feed thereon. She drinks, when the can light on no prey for blood, She flyes formetimes so high, that the cannot be seen. In the Ayr the will turn on her back, and firetches out her tail, back, and wings, and lyes upon them, Eliza. It hath wonderful ingenuity; The bird the takes in the Evening the holdsunder her feet, and when the Sun rifeels the less it flie away, and if the meets it again, the will never purfue it. When her eyes grow dim, the feeks for Hawkwort, and rubs it, and with the juice of it the anoint's her cycs, Llin 1.2. de anim, c.43. She feems to lament the death of Man, and will cast the earth on his eyes, and if he be not buried, fine will throw Earth to bury him. The thigh bone of it put toward gold, doth draw it to it with delight, Atian. 1. 4. c. 43. Pigeons to foon as they hear its noise fly away; hens eggs, if they fit, will be spoyled to small birds are so frighted at the fight of her, that you may take them off the hedges with your hands. The chief disease she hath is the molting

of her feathers. It happens, before Nilus overflowes the fields, that is, in August. When the South wind blowes they stretch forth their wings, and grow hor with the hear of the wind; when this is wanting, they fan themselves with their wings in the warm Sun. By this warmth the pores are opened, the old feathers fally and new grow up. The Ægyptians thought they lived 700 years, wanted that the CHAP. III.

Of the Assalon and Heron.

Sfalon, is called Smerillus and Merillus. It will so pursue Larks, that it will follow them into a hot Furnace, or pit of water, or to mens cloaths, Crefsent. 1.10. c. 13: It fights with the Crowe's and Foxes, breaking the eggs of the one, and killing the Cubs of the other. To kill Herons, in England is a capital Crime, wherefore there are many of them in that place. They are fo continent, that they are fad 40 dayes when they are upon venercous actions, Glycas I.I. Animal. If they dung upon a Hawk, they corrupt and burn its feathers. When a showring is coming, they flie above the Clowds. They swallow shell-fish, shells and all; but when they think their heat hath opened them; they cast them up again, and eat the fish. They lie in wait for fish very cunningly; for they stand so against the Suns beams, that their shadow may not be seen to drive them away: But the Countrey then of Colen fay they have such force; that if they put but a foot into the water, they will draw the fish to them as with a bait. Gefner writes, that he read in a German Manuscript, that if their feet be distill'd by descent, and a mans hands be anointed with the oyl, they will come to ones hands that they may be taken. Frank cifcus Vallesius the fitst, King of France kept them so tame, that though they be wild by nature, they would come home of thenifelves; fome fay, they sweat blood in Treading, but Alterin conflites that;

CHAP. IV.

! A Sin, or Otus, and a Night-Crow, makes such a noise, as a man doth that is chill'd with cold's they cry bu; bu: With his cry; and the bird Cyneramin, he leads the Quails when they depart hence; He imitates those things he sees men do: Also they watch sowlers standing over against them; wherefore they seem to anoint their eyes with a kind of bird-lime, then they depart and leave it in the holes \$ the Otus or Dotrill comes and glews his eyes together, and fo is he ta ken. There are two kinds of Aluco's, the greater, and the leffe. The greater Aluco hath this property, that he winks with his eye-lid, he hath

Chap.6. Of the Kings-Fisher, &c.

hath no little ears like horns, but in place of them he hath a kind of Crown-circle made of feathers that covers his whole face a the life there rising above his eys, like a high vide of a hair above the eye. He's, and on both fides they go about by the temples, and meer under the chin, like a womans kercher. The lefter is found in the clifts of Oaks that the Worn's have eaten hollow, all hotake any living creature he fwallowes it whole; for his throat is fo wide; that he will fwallow bits bigger than egs; nor doth he ear any meat till he have plumed the feathers and hairs, and east away the bones.

CHAP. V.

Of a Goose.

"Y Eefe in the Kingdom of Senega, are of divers colours. Whiter I than Swans, and with red heads, are bred in Hispaniola, Cadamult. And Odoricus & foro Julii faith, That in the Kingdom of Mancum in India the superiour, they have a bone above their head as big as an Egge, of a blood red colour, and a skin hanging half way under the throat. Aldrovandus thinks, it is of the kinds of Onotrotalus. Sirato 1. 6. Geograph, faith, there are none in the South part of Arabia. They live many years, Albertus faith 60, Gratalorus 200 years, But ML drovandus writes, he should nortake his oath for it. Gardanas thinks it not fabulous, because their flesh is so found. For it is knowns that a Wild-Goofe hung up for 3. dayes continually, would not grow tender, and cast to the dogs they would not eat it. But amongst all kind of Geefe, that is the most wonderful, which in Scotland shey call the Soland Goofe. In Descriptione Scoties Boctius writes thus of it's Above other Islands, Maya of D. Hadrian is noble, for the reliques of him and his fellowes, who fuffered Martyrdom for Christs fake. A Fountain of most sweet water runs forth of a very high rock in the midst of the Sca, a wonderful miracle of Nature. The Fort Bast that is invincible to mans forces stands upon it, and exceeds all the rest in strangenesse. Also there is a Rock situate in an arm of the Sea, that hath a narrow entrance, a Fisherman's Boat can scarce passe into it; that hath no houses made in it by arr of man; yet is it hollow, and hath habitations as convenient in it, as if men had built them. But they are by this means the more forcible; what stever is an it is shall of wonderful things; For those Birds which in our Mother-Tongue we call Soland Geefe, not unlike to those which He by calls water Engles, dwell here in abundance, and hardly any where elfer a Thefe do foon as they come at the beginning of the Spring, they do bring for much wood with them to build their nests; that the Inhalvirants diak dwell there (nor do they repine at it) carry away as much as ferves them for fuel a whole year. They feed their young ones with the most choice fish. For if they have eaught one, and they fee a better swimming at the bottom of the Seas they let that fall and plange themselves winnely into the waters to catch the other. When they have brought e fish to their young ones, they let men take away what they please llingly, and slie again to catch more. Also they for the people their young ones without resistance; whence, there actives to Governour of the Casse a mighty toyence yearly, for pulling off their skins with the fat, they make an oal of them of great worth. Also they have a small gut that is still of oyl as graan vertue, for it cures the hip and joynt Gouts; so that this Bird lerving, for all mans use, is inferiour to none, but that he is not common to be had; So far Boetius. When I was in Scotland, I smelt of them, and they small like Herrings.

CHAP. VI.

Of the Kings Fisher, of Ducks, and the Bird Emme.

T I is reported that the Kings-Fishers build their nests of the handest I fish bones, and the sharpest thorns, and are seldom feen but at Sea, where the waters are falt. They breed about the middle of wind ter. Wherefore when it is a calm Winter, they call it Halgyon dayes y 7. dayes before the midft of winter, and 7. dayes after the midft of winter. In the first he makes his nost in those last he breeds, Alind, 5: c. 8. The nest is made like a Pine-Apple, or a glasse with a long neck, Albert. It is to artificially made, that it cannot be rafily out with a fword. But Ariffolk faith, that if you break and bruile it with your hands, and then break it with an Iron, you may easily defiroy it! That the Sea may not enter into it, the makes her hole of a Toungy matter that will swell, and the swelling shuts up the entrantes Those that go in, do presse against it, and so presse out the water and find passage. The Shee of them so loves the Hee, that she is alwaies with him, and in old age carrieth him on her back; and they borh die in copulation & Plutarch de folert. animal. House Ducks aroknown almost to all men; those of Lybia are of a middle statute, between a Goofe and a Duck. Their genitall member is so great as a finger is thick, and five times as long, and is red as blood, Bellon ... Look on their eyes by the Sun, and you shall see a black spot on the top, which is in the Beaks of them, Scalig. They make no noise, though they have both Lungs and Wind-pipe. When our Country-people would keep abundance of them, let them keep two of our Ducks for each of those Drakes, and so they will lay abundance of Eggs. But the young Ducks to bred, will never procreate again, as other living Creatures that are bred of divers kinds. In Antyra there are fome that blow like a Horn, as those that found when horsemen march in orders, Auger. They love their liberty fo well, that being kept 3. years in a Cage, and fedgif they can find opportunity they will flic away. Tir.

away. There is such plenty of the wild ones, that they cover all the waters; but they live no where but in warm Countries. In the Winter, that they may not be Frozen in, by an inftinct of nature, they fwim circularly and on one fide, they keep the waters open, and cry fo lowd that they may be heard. When the cold grows too violent they flye aloft to the Sea, Olaus, 1. Pg. c. 6: 100 100 100 100 100 100

The Hollanders brought the Bird Emme from Java; it is twice as great as a Swan; black and with black wings. But our of two originalls there proceed two more, as it is with the Offrich. It wants wings and a tongue; on the top of the head, it hath a buckler as hard as a Torteffel. shell, like a Target. It would swallow Apples as big as ones fift, and lumps of Ice; also burning Coles, and all without any hurt. 2/1drovand.

CHÁP. VII.

of Barnacles.

Hero is a bird in Britanty that the English call, Barnacles, and Il. Brant Geefe, the Scotch call them Clakgufe; It is lefte than a wild Goofe, the breast is somewhat black, the rest Ask-colour. It flies as wild Geefedo, cries, and haunts Lakes, and spoiles the Corne. The .. learned question the original of it very much. For some fay it breeds from rotten wood, fome from Apples, some of fruit that is like to heaps of leaves; which when, at the time appointed, it falls into the water that is under it, it revives and becomes a living Creature. It grows in the Isle Pomonia in Scotland toward the North. And of this opinion is Isidore, Alexander ab Alexandro, Olans Magnus, Gefner, Bottim, and others; contrarily Albertus, and those that are of his mind, hold that they breed by copulation. The Hollanders from their own experience in Greenland, affirm they found some Barnacles sitting on egs, and had young ones. In But these things may agree together, for things bred of corruption may have eggs, and that feems also most. clear that Boetius hath written concerning them. That every mark may perceive they are not fabulous, I shall fet it down. Now it remains that we freak of those Geese which they call Clak-Geese; and which commonly they think amisse, to be bred upon Trees in these Islands, of which we were for a long time very inquisitive, and have found by experience. For I think the Sea between, is the greater cause of their generation than anything esse. For things are bred in the Sea varioufly, as we have observed. For if you throw wood into the Sea, in time worms breed in it, that by degrees have a bead, feet, wings; and lastly, feathers. Lastly they are as preat as Geefe, when they are full grown, they flye upward as other birds do , uling their wings to carry them through the ages, which is as clear us day, undowns from the yeare from the Virgins conception, 1490, Asany looking on. For when Combi of this wood was carried by the waves to the Cafile, Pechlolinge, in greater quantity; they that first espicality mondred, under an 19 the Governoun and d

sell Dim the strange nows. The Got ernouncame, and bed intents and the 280 4 funder: their they fair an infinite forb of living Crediares while steve haling worms forme not formed, others were and were partly birds & had tome by the were callow fome had feathers. wondring at the mirable is he the chill nours command, they carried that Log into the Church of Se! Andrew Miller where it yet remaines full of worm holes us'at was. The like wo this two leares after was brought into Tham by the tide; to Bruthe Caffle's many ran to fee it which again, two years after at Leich in the Warbour, all Edel Bufff came to fee. For a great flipsthat had the name and the enfighe of Chilles. pher, when it had been 3 whole yeares at Anthor in one of the Hebrides was brought back bither, and drawn on land , that part of it that was alwaies under the Sea, had the beames eaten through, and was full of worms of this kind, partly unformed, not yet like birds, and partly those that were perfect Birds. But it may be some man will cavillat it, and say, that there is such a vertue in the boughs and flocks of Trees that grow in those Islands; and that the Christopher it self was made of the wood, groning in those Hebrides : wherefore I hall willingly declare what I fan 7, yeares lince. Alexander Gallovidianus Pattor of the Church of Kildy (a inah besides his greatinregrity; incomparable for his care in Audy of wonders) when he had pull'd forth some Sea weeds, from the stalks and boughs, and likewise from the root, that grew up to the top where they found; he perceive ed some shell fish-breed: he frighted with the novelty of the matter ? presently opened them to know farther, and then he wondred far flight than before. For, he faw no flesh that up in the shells, but (Wirlest's wonderful la bird: Wherefore he ran prefently to me whom he'a long time knews defitous to know fuch new things, and fliew'd it hier who was not more altonished detho fight of Iras I rejoyced arthe obcation to fee a thing fo rate, and unheard of ... By this I think it it be evident enough, that these are not the seeds of breeding of Birds in fruits of roots of Trees, but in the Sea it felf, which Virgil and Homer rightly term the Father of all things. But because they saw that come to passe when the Apples fell from the Trees that grevy on the shore into the yvaters, that by continuance of time Birds appeared in them, they vvere of that opinion, that they believed the Apples were turned into Birds, &c. Thus far Boetius. Reader thou may's judge of it for my part I admire at Gods providence y and at the end of this Classis by way of Appendix, I shall add some thing out of the discourse of Majerus concerning the Tree-Birdell lette all and but the first and but

CHAP. VIII: A COUNTY OF THE Own and Cararrhacta, and a county of some of the Own and Cararrhacta, and a county of some of the Own and Cararrhacta, and a county of some of the Own and Cararrhacta, and a county of the Own and Cararrhacta, and a county of the Own and Cararrhacta, and the county of the th

The onlibuilds in the highest Rocks, that sometimes le's hard to A find her eggs ; for its young, Pliny faith, comes fordiby the fail out of the egg, because the eggs being reversed by weight of their heads, brings the hinder part to be folleted by the dam. It is faid?

That in Churches the dricks up the oyl; the not onely kills Birds. but Hares alfo. A Duck hath been found in one cut open. The brain of it with Goose-grease doth wonderfully joyn wounds. The Catarrhalla hath a wonderful way of fitting on her eggs, if that be true that Oppians hath written. She layes Sea-weed upon her eggs on a rock. and so leaves them open to the winds. Hence the male carcheth those eggs he thinks fit to breed the males, and the female doth the like for the females; then they carry them up on high with their Talons. and so let them fall into the Sea; doing this often, they grow hor by motion, and the young ones are harched.

CHAP. IX.

Of the Feldifare and Goat-Sucker.

He Feldifare makes her neft in the thickets; the walls are moffe, wooll, downy herbs; the ground-work is heath. They have fix young ones, and they are lounlike their old ones, that they have scarce any mark like them; Because he flyes, he doth a little imitate the other Birds notes, he catcheth those that fly to him, and is casily raken himself; for when he sees a bird shut up in a cage, he flyes upon it to invade it. The Caprimulgus goes into the folds of thepherds, and sucks the Goats teats for milk; the udder loseth its force by this injury, and the Goars that are fo fuckt grow blind, Pliny 1.10. c. 40. He sees little in the day, but is quick-lighted at night, Arift. biffor. 1. 9. c. 30. In Candie it makes such an horrible noise, that it will fright the Inhabitants, Bellonius.

CHAP, X.

Of the Cuskow.

FITHeCutkow is aBird of a very cold constitution of body, whence she is so fearful, that all the birds offend her, Plin. 1.10.c.9. she breeds in other birds nefts; especially, the Woodculver's, the hedge-Sparrow's, the Lark, the Red-breast and the Nightingall. If their ness be empty, the will not turn in there, but if there be eggs, the breaks fome and tucks them, and layes her own in the room; in fome nelts they fay the breaks them all, Arift.1.6.c.7. The young ones hatche and known by the bird, are said to be beaten, and to fly away to their own dam. Note the goodnesse of nature I they say she layes in those Birds nests that feed on common meats; she feeds on Worms, Infects, and Corn. The Grashoppers before the dog-dayes when they hear the Cuckow fing, run upon her in troops, and they get under her wings and kill her, Isidor. 1.12. c.8. They are said to be bredof Cuckow spittle. In winter she casts her seathers, and changeth her

colour estable 2. bifor 6.43 In a Mountain of Greece where many Cuckowes breed, it is laid that a Holly Tree growes there, that what living Creature loever lits upon it, is glewed fait as with birdlime, except the Cuckow, Pine 1, 30, c. 16! In what place foever you fielt hear the Chekow ling, if you make a circle about your right foor, and dig up that compally of earth, no fleas will breed whichtook and the up that company of extra modicas will breed a where took of the first of the land of the

T' Is certain, that in the New World the crover abe white wand Alphonfus King of Gielly had one. They fay they grown white if the eyes be anointed with the brain or far of a Okt, and berdut undit 3 white hen in a sold place. They flock together to whiteful fields bus two as once, where the field is not fruitfull of le fruit many notes! they fay 64; the proper note is droking; which he makes beand ghanged with no passion or variety of weather. He longs for raw Agh, and corrupt, and that dyed of it felf if the refult this, toils an Illorpen, as Thueidides observed in the Plague at Athens. Juliu Cal far Moderatus Ariminensis, learned by experience, that he vomits up again the bones and the finall feet. Hyginus denyes, that he can drink when he eath eaten figs, because then his throat is pierced thorow. He casts off his young ones if they be white; though they write, that seven dayes after they are hatcht, they become black. Cassiodorus thinks out of the Psalmist, that they then live upon dew. A tame Crow at Erfurd took money off of the Table and kept in and did to exactly call conrade the Gook when he was hungey, that tou would believe it were a mans voice; then he pricked holes had Mufick-book that he found; as if he understood Mulick, Scaling Buerriver, Barbarus observeds that he carried fire in his mouth when Lightning fell. Some think he catcherh sparks of fire, instead of please of sheets when exhalations take fire in Lightning. He is faid to live 186 vehice Indeed in a City of France, Coruntum, one lived i goryeats Alberta 9. biff, r. 10. A certain Physician that was famous in This his days. burnt two Crowes to affices taken out of the nest in the monetiffor March, and being made into fine powders gave them to people for the Epitepher one dram weight twice or thrice in a day, with water and entered on a continuous section of Cafforium.

And the decotion of Cafforium.

And the continuous continuo

colour,

CHAP. XII.

Of the Rook, and Chrysaethos.

IN Britany there is abundance of Rooks, because the Sea washeth Lit on all sides; and in the grounds that are mouse there breed about dance of Worms for their food, Cardanus. Ludovicus Rhodiginus faw a white one, with a black head, not far from the walls of Rhodigium, 8. 17. Antiq. lest. c.11. He loves Nitts chiefly, which if he cannot break, he lets them fall upon stones, Aelian 1.3. c.9. They do not inconfiderately couple; for when one dyeth, the other lives fingle alwayes after. When Storks fly beyond Sea, this leads them. It is fo andustrious, that Merthes King of Egypt had one that would carry letters whither he fent him, Porphyr. de abstin. ab animal. When the is. flain and remains dead till the flincks, the drawe's mice, if you lay her in a place where you may kill them, Gefner. The Chryfaethus hath a tongue like a mans, armed on both fides toward the roots with two horny hooked appendices. The length is sometimes from the beak to the clawes four hands breadth and a half, the breadth is eight when the wings are firetched out. It layes but one egg; if it lay two, one

CHAP. XIII.

of the Pigcon.

He Pigeon when the layes two eggs, the one egg will bring a male, the othera female; but because the hear is greater in the male, he is faid to be first hatcht, Paul: A Castro. When the young ones are brought forth, sho thrusts the falt Earth into their mouthes, which sho hath first fitted in her own, to prepare them to receive forme mear, and to implant fruitfulnesse into them, and to raise their appetite, Athen. 9. hist. r.24. Many things prove them to be apt to learn. One of them pecked corn our of Mahomet's cari When Leyden was besieged, some of them carried Letters, Lipsus. The same was done at the siege of the Buss. Divers men use divers remedies to keep them in the Dove-houses, and to allure others this ther. Some stir Man's blood up and down in an earthen vessell for a quarter of an hour, with Peafe, and then anoint Pigeons with it, and cast the pease to them to cat, Gefner. Some hang the skull of an old man in the Dove-house, Albertus. Some hang a piece of the halter that a man was hang'd with, on rheir windows, Pallad, 1.3. e. 44. Pliny (1.11. c.37,) writes, That there is poylon in mans teeth that will kill young unfeather'd Pigeons. We have it from the fecrets of the Egyptians, that fuch as feed on Pigeons flesh will never be infected with the Plague. Hence in times of pestilence onely

Princes feed on them. Cardanti prescribes them With their broth. Their dung is fo hot, that being fired by the Sun, it hatli fired houses! faith Galen. The same Author useth it for a heating romedy? and being bruifed dry with the feed of Cireffes, some apply linked of Mil stard for a subificative. Anno 1550, there was one taken the dera many with 4; feet, and 2, bellies; It was brought to the Emperous; and Electors; who all wonder'd at it.

Of the Swan.

CHAP. XIV: See Man Control of the Swan.

Here are abundance of Swans in many places. In Moravia a Province of Stotland there is a Lake called Spina, it is noted for mill! titudes of Swans. For therein there growes a certain herb, whole feed they feed greedly on; and therefore it is called Swans meat. The nature of that herb is, that cast into water it will never putrifie." Hence it is, that though the Lake be extended about five miles and was wont, as men remember, to abound with Fish and Salmonse fince that began to foring up, it hath increased by degrees, and hath made that Lake fordable, and that men cannot swim in it; nor is there any more any great Fish therein, Boetiss in descript. Scotia, The internal constitution of Swans is wonderfull, Aldrovandus diffected them. The Intestines were 14. spans and a hand breadth long; and many of them were covered with far inwardly, as thick as ones thumb, which ferved instead of a caul; which being nor intricare with many windings and turnings, but onely by a fingle revolution are turned back into themselves inwardly, with a middle tundle, perchance some of the nutriment might passe by not distributed; but nature, to help this inconvenience, hath fastened two blind gutsia hands breadth between the anus and their beginning: the right intestine passing between, which should make amends for the windings of the gurs that are deficient. The guller is of a wonderfull firucture. For the first pl arrory that accompanies the weland under it, descending to the throbe, when it comes there, doth not tend directly to the Lungs ha in other Creatures, but is elevated above the thanel bones, and is inferred into a rib of the break-bone, or Sternon. And this rib is not made of one fingle bone, but of two fide ones, and a third from above; made for a covering to lye upon these; and it is like a leabberd or sheath, and serves for the same use. When the Artery comes? to the end of it, it is bent backwards beneath like a Scipent in fallion! of the letter S; and by and by it goes forth again beneath the fotefaid part of this covering that was placed above it, and afcending to the middle of the channel bones, it leans upon their compling as 6h de prop; and being so upheld, it is again bent backwards like a Trum per, and going under the hollow of the Thorax, before it comes tolthe lungs; it makes as it were another Lurynx, curathwart, and with at

little bone as long as this is broad, and which is covered with a thin membrane; it represents a hollow pipe, or an Organ pipe, in figure and composition, which are open in the neather part of them with the like fiffure. Under this Larynx the artery is parted into two channels, each of which in the middle are firetched out wider, and Rick forth, and are distributed, going directly to the very small Lungs, that are wholly fastned to the sides behind. This is a wonderfull composition, and it serves for the breathing and voyce. For when in the bottom of Lakes the feeks for her food, the needed a long neck, left by long continuance the should be in danger to be suffocared by fuch an Artery. And indeed whilest for half an hour almost The thrusts down her head into the water, she takes breath by that part of the Artery which is open in the sheath we spake of in the breast. As for its singing, some say the sings before her death, and fome deny it. Oppianus faith, she sings early before Sun-rising; but as the is very near her death, the fings on the Sea-thores, but not fo. loud in her old age. The West wind, he adds, is observed by them. when they fing, when they are feeble and their strength is spent. The fashion of their sharp artery seems to make good this opinion.

CHAP. XV.

Of the Stork.

FITHe Storks of old time about Fidena, neither made any nests, nor fed their young ones. Also at the Lake Larius in Italy beyond, Roe, a pleasant place with small Trees, they are hardly seen, Pling, The Author of the book of Nature writes, that they neither come into, nor will inhabit a City in Germany where no tythes are paid. They are travelling birds; but it is a question whether all or not. Many as if they were dead, were drawn forth in Fishers nets, and these were joyned together, and had their bills thrust into their anus, together, and being hot in Minerall waters they lived again. In Lorenge it is certain, that it so happened, Anno 1467, as Campofulgosius reports, 1. 1. memorab. when they depart, they meet all at a fet place of rendevouz, and will leave none of their company behind. It is observed, that they are feldom feen after the Ides in August; when they are costive they thrust their bills into their Anus, and give themselves a Clyster, that brings forth the faces, and thence Chirurgions learn'd that art. They are very chaste and gratefull. One of them in upper Vefalia bade his Host farewel when he departed, and when he return'd, he faluted him again. And not content with a vocall gratitude, he brought him a root of green Ginger. Another pickt out the Eyes of one that lay with his Hostesse when his Host was abroad. Another: finding out the adultery of his mare in his ablence; brought more, company and torcher to pieces, The Stork carries his aged Parenes upon his shoulders, and seeds them out of his mouth w. Whomeg then word A 110

word of gratitude is delineradopties Gefiers By the asiant plantalist ic is apparent, that the forethews things friting for how as a service Sylvin writes, unleffe he had feen Storks from the high Toward ich Aquileia, would have departed thence; and supposing that to both token of taking the City, he held on his purpose, and shorthwealt it, when he had befreged it 3. years. There are none in Englandian Cl. Bandarcius faith. of the dearth and a stopped ground of the description

mother, and then the distribution of the Company of the contraction of the contract of the con

throughout to not have to endire the resolution of a red or an emphatric uself ad three and of the Faulcone where a wis uplace with a problem.

A Faulson is so strong , that when ho strikes a bird, he will curbing in two from head to tail. A Sea-Swallow call'd Drepunios a little Bird about Lakes, when the hears the Caltrel, will rather len men stone her; than she will rife. She is wont to be sick of a difease the Faulconers call the Filandre. That is, a kind of workins hours a from their reins, hear to which they are wrapt up in a thin and prox. per membrane; they are as fmall as hairs, and half an ell-long, io may be from their first originall; unlesse you prevent them; they will eat up the principall parts and the heart. The Gyrfaulcons are of idia vers kinds; They are some white found in Moscouly; Norway, Ireland! They are bold: If one of them be lettly at five Cranes, he will fold low them all till he have killed them. The food of it referved in its Cave, it will take in order. She never wets her felf with water! but onely with fand. She loves the cold so well, that the will glwayed delight to stand upon ice, or upon a cold stone: sometimes unraught the is fold for 50 Nobles. There is a Faulcon called Relleus, because the spots, that are white in the rest, are red and black in this kind if yet they feem not to be for but when the stretcheth forthiher wings The cause of this reducise is a feeble colour infused into the superfit cies of the body, and inflaming the smoothy mouthure; which his pur forth to breed the feathers: 18 18 1 minutes and a populational of The Collection of the second o

Of a Hen and Cock.

This in the Kingdom of Senega are thrice greater than ours there are many near to The saloniens folicilay two eggs, that is with two yolks, which are parted by a partition, that they may not be confounded. Avillor, in mirabil, reports, that fome have laid 18 double ones, and to have hatcht them; one chicken was greater than another; and at last it became a Monster in In Macedonia there was? one Hen which once laid 18 eggs, and hatcht two young chieflenhan. once, faith Dierius ducaq. HidroglyphuuBus sholn eggsstas alfa deberu France. birds

birds eggs, are first congrived above, where the partition is, where first it is seen to be faint and white, as Aristot, writes; than red, and bloody, and as it increaseth, it becomes all yellow; but as it more increaseth, it is distinguished, so that the yellow part is inward, and the white goes outwardly about it; when it is perfect, it is finished and comes forth of the shell, foft at first barching, but presently it growes hard. The place of its perfection is the Matrix it felf into Which they fall, Aldrovand, 1.14. Ornitbol. Some report alfo, that a. Colk layes an egge when he is 9. or 14. years old; and they suppose it proceeds from feed putrified, or ill humours concurring together. It is thought to be round, and to be laid about the rifing of the Dogstar, For the expulsive faculty being then weak, is helped in an aged Cock by the outward heat. With Ferrans Imperatus an Apothecary, one was feen that was long fashioned, aldrovand, The Cocks are wonderful falacious, for they will tread the Hens 50 times a day, and they have been feen to ejaculate their feed when they but faw the Hen, or heard her note, Alian. There was an old Law, as Plutarch faith, in Libro, Num bruta ratione careant, That if one Cook trod another, he should be burntalive. When he finds he is too full of blood, he will fcratch his comb till he fetch blood. All men know he Crowes in the morning. Some fay the cause is, the Love he hath to the Sun; some to his venery; others to his desire of mean. The Mahumetans say, they answer a Cock that crowes in heaven. Keckerm: in Phylicis. The first reason seems something; for he will crow when he is full also, and after copulation; also he crowes when the Hen is present; but when he is gelt he crowes no more, Plin, Yea 1.29. c.4. he faith, That, a circle of Vine-twigs tied about his neck, he will not fing ; Alberton faith, if his head and forehead be anointed with oyl. He is at great Amity with the Kings-Fifter, that if they, be both in the same house, and the Kings Fisher dye, the Cock will dve with hunger. They that have fed on Fox flesh boyled, are free for two moneths from their Treachery, Beeties.

As for a Dung-hill Cock, Gesner saith, he found it in a German Manuscript; that a Noble-man having tryed all reincdies for pains of the Collick, and finding none; at length he drank a small cup of Capons-grease unsalted, boyl'd in water. But (saith he) you must drink the fat that fwims on the top, as hor as you can.

CHAP. XVIII.

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Of the Cranc and the Woodwall.

File Cranes travell all over the World. Yet Aldrovandsa faith, he scarce believes that they will live willingly in all Countries, 1.20. The Afpera arteria of them is fet into the flesh on both sides, at the Breast-bone: whence you may hear a Crane afar off. They travel, but no time is let; yet how fwiftly they fly, is manifelt by the

example of cyru, who was laid to to have disposed of His Pont certain stages, that when one was weary, another siguid proceed night and day, that they out-went the Craices that flew. When they fly they keep a triangular tharp angled flygre, that they may the casier pierce through the Ayr that is against them. That Crane that gathers the rest together, will correct them, as Isidorus saith. When one is hoarle, another fucceeds. When they light upon the Earth to feed, the Captain of them holds up his head to keep watch for the reft, and they feed fecurely. Before they take reft, they appoint an other Sentinel, who may stand and ward with his neck stretched forth, whilest the rest are asseep, with their heads under their winds and standing upon one leg. The Captuin poes about the Camp, and if there be any danger, he datles. Left they flight fleep too found ly, they stand upon one foot, and hold a stone in the other above ground, that if at any time being weary they should be oppressed with sleep, the stone falling might awaken them. They love their young ones so much, that they will fight whether shall give them their breeding. Albertal sawa male Crane cast down a feingle and kill her, giving her cleven wounds with his bill, because she had drawn away his young ones from sollowing of him. This fell out at Colen, where tame Cranes use to breed. Those are fables that mell relate of the Battels between the Pigthies and the Cranes. The wood. wall hangs up her nest on the boughs like a Cup, that no four footed beaft can come at it. The nest is like to the fall ion of a Rains-flones, Albert. Magn. Some fay there is SIIR found in it, and that the nelt is built not far from the water, made of mols, and the cords it hangs by are horse hairs. She leaves tealy, when arthuras arisely. As the hangs down, she sleeps upon her seet, sloping for more safety thereby. Plin. 1, 10. c.32. When the comes into Germany, there is great hopes that Winter for Snow and Frost is gone, CHAP: XIX was an experience of the Chough: a give of an experience of the Chough: a give of an experience of the Chough: a give of an experience of the Chough:

TT is thought that the Choughs feed on Locusts besides Corn, be-Leavile the Inhabitants of the Island Lemnos were reported to wor, thip these birds, because they flew to destroy the Locusts, Plin. 1. 10; r. 29. The males will rather lofe their lives than part with their females. They fly at the eyes of him that holds them. The reason is rendred by Nicolaus Leonicus, because the eyes are thining and york moveable and these birds are bred to allure and draw things to them. For Birds are wont to pick and for arch at ones finger that is often moved about their bills, or because the eyes are such perfect Looking-glasses, that the pupill that is so imall will represent their image standing over against it; now when the Birds see their own shape in

our eyes, they, it is likely peck at them, as defirous to come to what they delight.

CHAP. XX.

Of the Swallow:

Wallowes are found almost in all Countries: Yet Pliny faith, they Will not fly right to Thebes, because they are often taken there Nor are they found in Bizia in Thracia, by reason of the wickedness of Terem. They can endure no cold. Hence Claudian writes,

As when cold Snow and Frost, like feathers, fall On Trees, the Winter-Swallowes die withall.

Where they live in Winter, is diverfly described. It is certain, that in hollow Trees lying many close together, they preserve themselves by mutual heat. But Olaus Mag. Episcop. Upsalensis, faith, That in the Northern parts where men dye of cold in winter, the Swallowes live in the water. Though, faith he, many Writers of Natural Hiftories affirm, that Swallowes change their flations, that is, do go to horter Countries in Winter; yet in the Northern parts, Swallowes are often drawn forth by Fishermen by accident, like a congcaled Mass, and they have united themselves together, bill to bill, foot to, foot, wing to wing; after the beginning of Autumn, to go amongst the reeds, &c. When that maffe is drawn forth and put into a hot-house, the Swallowes are thawed by heat coming to them, and so begin to fly; but they last but a very short time, because they are not made free, but captives, by being taken too foon. In Egypt their wonderfull Industry is seen: For in the mouth of Heraclia in Egypt they make such an impregnable Mount with their nests continued together against the overflowing of wandring Nilus, for a furlong in length, that it is thought no man could do as much, pliny. In the fame Egypt near the Town Coptus, they fay there is an Island confecrated to 1/153, which that the same River may not demolish, they sence by labour, in Spring-time, making firm the mouth of it with straw and stubble, for 3. nights together, labouring fo hard, that many dye of it. Their young ones are bred blind, if we believe the Philosopher, and Pling; when they receive their fight but flowly, they haften it by putting Celandine upon it, Their copulation is wonderful: For when the rest of Birds are trod by the old ones, Swallowes, couple a contrary. way, Gefner. Jacobus Olivarius faith, he heard from Hieronymus Montuis an excellent Physitian, that Smallowes hearts being taken with Cinnamon, and Species of Pills Elephanging, they will help mentory. Hence Johannes Ursinus writes,

--- with amomum eat their heart ; And wit and memory will gain their part.

CHAP. XXI.

Of the Ofprey, the Ibis; and the Loxias:

F Officers; or Sea-Eagles, some are said to have one foor like an Eagle, and hooked; the other, plain like a Goofe, to fwin withall, that it hath also costly Fat in the tail, and that he flies in the Ayr, and hangs there as it were, and lets drop fome of this fat into the water, whereby the fifth are aftonished; that they turn upon their backs, and to he catcheth them, as some say, this is a Bird fo loving to Egypt, that it will live no where elfe s to foon as it is hatche, if it be weighed, it weighs two drams. Plutarch. de avib. 1.4% c. 9. The heart is greater than is proportionable to the body. The Gut is 96 cubits long; and that in the waih of the Moon is preflect together, till the light of it increaseth again, saith Gaudentius Ace rula:

The Lakes in Arabia fend forth fuch multitudes of winged Serpents that are of fo sudden a venomous nature, that when they bite. they kill before the wound can be perceived; these birds by a kind of forefight, are flirred up, and fly forth in Troops and meet thefe peftilent multitudes in the Ayr, before they wast their Coasts, Marcel. Loxide, in respect of its bill it differs from all other Birds. Whence Aristotle thinks it is not known. It is wont to have a red break, neck and belly, but in winter it changeth its colour. It delights in Hempfeed, dead carcafes and kernels of the Fir-Tree, and it builds in fuch Trees in January and February. In Winter when all things are from zen, it fings, but forbears in Summer.

Mar Will CHAP. XXII.

the decrease of the Kite.

Ites live almost every where, but they change their quarters? especially if they be necre. For otherwhiles they are found in hollow Okes, cherishing themselves with the rotten dust. About, Pontus necre the Sea Euninam, they are feen in such abundance in Winter, that if for 15, days fo many should fly thither, as Bellonial faw in one day, they would be more then all Mankind. They bring the Cuckow with them on their backs, because he campor flye so far. Isidore. The scripture ascribes to them the knowledge of the change of times. Jerem. c. 8. Abour the Dog-dayes, she flyes up to the mid-1 dle region of the Ayre, because it is cold, and sits there till the evesing. Herodot.1.2. Yet in Lybia and the Island of St. Dominick, they arcalwaies; also at London, because it is not lawfull to kill them. Hence amongst multitudes of people they will catch up their prey, Cany filth that the Inhabitants cast forth into the City, or into the Thames) Cluf, 1.2.c. 36, in observat, Bellon. They will take ment our of the Shambles, bread out of Childrens hands, and hats off of mens heads, especially when they make their nests. Elian, 1. 2. c. 47. In she first years they perfue great birds, when they grow older, little birds; and in the third yeare, gnats and flies. Apuleius speaks much of sheir fight. Aristophones calls them all-eys. They flye to high that sometimes they are out of fight, so farr that they pass through the Ayre every where, and they flye fo fwift that they will catch any garbage thrown forth before it touch the ground. Bellonim, 1, 2, de Avib, c, 26. Somtimes they will ballance themselves in the Ayre, not stirring their wings in an hour ; for lifting up their wings a little in part, where the Ayregoes under them, they receive the Ayrs motion with their whole body, and forthey are held up. It never fits on a Pomegranar Tree, nor can it endure the fight of it; and it delights to behold an Owle. Burnt alive in a por it is said to cure the falling sicknesse.

CHAP. XXIII.

Of Manucodiata and the Cormorant.

i A Ldrovandus observed five kinds of the Manucodiate; none of their bodies was much bigger than a Swallow, and their heads were like to them. They are faid to live alwaies in the Ayre, and to rest firme without any, but a tonick motion; for they want feet and never come to the ground; but when they are dead. This is a fable; for they could hardly fleep there, when their fenfes are bound up. For all their exercise is a tonick motion. It is like to that. That there is a hole in their back in the muscles, where the Female that hath a hollow belly lays her eggs. Aldrovandus, who faw thele Manucodiate, never found any fuch thing. And that is like this, that they feed on dew; because they flye so high, that they cannot alwaics meet with Dew. But that must alwaies be restored, that alwaies wasts. Bellonius faith that the Janisari, people of India, deck themselves with their feathers. They think that under their protection they shall be our of danger in the head of the battel. The Mahumetans Marmin perfwaded their Kings that they came from Paradife, as tokens of the delights of that place. The Cormorants are taken in the East to catch fish with. In a certaine City, faith Odoricus à Foro Julii, seituate by the great River in the East, we went to fee our host fish. I faw in his little ships, Cormorants tied upon a perch, and he had tied their throat with a string, that they should not swallow the fish they took. In every bark, they fet three great panniers, one in the middle and at each end one ; then they let loofe their Cor-

morants, who presently caught abundance of fish, which they put into the Page niers, to that in a (bort time they fill'd them all. Then mine Hoft took of the Arabs from their necks, and let them fill for them elves : when they were the they came back to their pearches' and mere tied up againe, Soutiger writes that the same was done at Venice. They put their heads deep into ils water, and perceive the change of the Ayre under the waves with when they perceive any temper, they flye to the land, making a hold Midorect, 12 c. 7 - Mizaldus faith, that Vapours, tile up trom the we ters that haufe rainic Clowds, and they chuningly obletye its The Hver of them boyld, and caten with Oyle and a little Sale i is forth felita renigly against the biting of a mididog is that the sich will be fently dollte water, Melius. The fante continued with Salt meli deank With Flydromet two spoonfulls, will drive sorth the second line Digitorida.

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Lingely for into daying their in more in the colors of free case of their

breed, nor will live, brought thither. Also in Mountain Count tries of Helvetid there are note. They fiv close on dayes in Winter. They are not hurr by fasting 9, dayes, Whintle ideal and Eullablus fave they fee in the dark, when the Moon is hid, but hardly for want of a Medium. Crefcent, 1. 10:00 to you they cannot few in the daviby tealon of too dry and thin substance of the humour which is districted by the firty fubitance of the light. Identakes a double horiel the one is Tou, Tou, the other noise they call Howling. She is ac broad admitt with Crovys. Paulanias reports, that the Crovys fnatche ayyay the picture of an Ovvi that was to be fold, and carings of Gold out of ones hand, that yvere made like Dates. ! It is commonly observed that if the Cyvi forfake the Woods, it signifies a barren yeare. Ovvis egs gi ven for three days in Wine to drunkards, will make them loath it. Plin. The Musket, in Winter sits in Woods that use to be lopt, and comes not to her place till Sun fet. When the looks unon and things. the black of the pupill of her eye groves greater then ordinary. read of this bird in the Salick lavvs, that he vyho flould heal our, if he the taken, must pay x20 denarii. That is a to quite a free ya haqib

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CHAP. XXV.

Of Onocrotalus, and Rhinoceros.

Nocrotalus is from the tip of his bill, to the bottom of his feet, ten spans and more in magnitude, Aldrovandus. His vvings stretched forth make ten spans; under his lower mandibule, there is a receptacle like a bladder, as long as it, that hangs down at length. And that is fogreat that a very great man thrust in his leg as far as his knce, with a boot on, into his laws, and pull'd it out again, without harme. Perottus Santlius reports that a little Blackinore was found in one. At Mechlin there was one of 80, yeares old, and for some yeares he went before the camp of the Emperour Maximilian, as if he would determine the place for them. Afterwards he was fed by an old woman at the Kings cost, who was allowed for him 4, Stivers theday, she fed him 56, yeares, when he was young he would fomtimes fly fo high into the Ayre, that he seemed no greater than a Swallow, Gesner. Also the cubit bones of his wings were covered with a membrane, out of which there arose 24, Tendons, that were so firmely fer into them, that there was no way to part them. Gefner writes that he heard, he was wont to come once a yeare about Laufanna by the Lake Lemannus. Rhinoceros is a bird whereof one was kild in the Ayre flying at what time the Christians conquered the Turk in a Sea fight. The head was about two spans, adorned with black tuffs of feathers, very long, and that hung downwards. The Beack is almost a span long, bent backward like a bow. A horn grows out of its forchead, and flicks to the upper part of his Bill, of a great magnisude. For about the forehead it was a hands breadth. Aldrovandus thinks it is, Pliny his Tragopanada. CHAP. XXVI.

Of the Parrot.

He Antients knew but one kind of Parrots; but those that have seen A. the Indies, have found above a hundred kinds, different in colour and magnitude. Vesputius writes that in a Country above the promontory of good hope, that hath its name from Parrols, they are fo high that they are a cubit and halfe long. Scalig. exerc. 236, faith, he faw one fo great, that he almost fill'd up the space of the lattice of a Window: Some are no bigger than a Thrush, or Pigeon, or Sparrow. No man could hitherto paint sussiciently all its colours, they are fo many. In burning Athiopia , and the farthest Indies, they are all white; in Brasil, red, in Calecut, they are all Leck preen, Watcher, or Purple coloured. Scalig. Exerc. 59.f. 2. The Antients esteemed the Green best. The head and beck of it are extreme hard: where fore, when they teach him to speak, it feels not unlesse you srike i

with a wand of Iron, woodden rods will do no good, and it is dangerous to do it with Iron ones. The Parrot alone with the Crocodile, moves his upper mandible; also his Beck, which is common to no other, where it is joyned to his neck; is open beneath under his chops. His tonguo is broad like to a mans, and represents the forme of a gourd feed, the feet are like Woodpickers feet. In the deferm of Preflyer John, they are found with two Claws. He with his meat in his mouth like as men do. He not only buts infunder the Almonds; but by rowling them in the hollow of his Beck, and preffing and moving it with his tongue, he breaks them; and chews them as it were; and their fivallows there. Wathregave this bird a kirdoked bill Mke halfe a click, it is very firong's Because the is of a clambering diffio-Aftion, and hath not feathers in her taile that the can falten into a Trees The had need of a ftrong beck, that the might first cast it in like a hook, and By that the might rails her body, and then take hold with her feet. They live in Hot Countries. In the Country of Parroll they are fo cheap, that one may be bought for two pence: They alwaics flyd by couples, and left they fliould hurt their weak feer when they light upon the ground, they trust to their strong beck; and break the fall with lighting upon that. They imitate a man, they learn his words alid will pronounce all almost with an articulate voycoe One was raught that would fay the Creed to a Cardinal. Scaling exercit 2381He will answer questions. Henry the eight, King of England had one that Tell into the Sea, and cried for help, promiting 20, pounds, but when he was pull'd forth, he bad; Give a Groat. If you ftroke her gently the will kiffe you, Scalig. exerc. 236. Amongst mourners she will lament alfo. Tiraquel faith, that the females do never or very feldonie speak like to Men. They are so simple that when a Parrot cries In a Tree, and the fowler fits close in the boughs of the same Tree, great multitudes of them will flye thither, and fuffer themselves to be easily taken. Pet. Martyr in Decad. Oceani. They are fed and grow fat on wild faffron feed, that is a purgative to men. They will hang by the heels with their heads down toward the water, and their tails upwards. They build in a high Tree: They bind a branch that hangs down, with small twigs to the top, and they hang their nest upon it as round as a ball, with a little hole in it. They lay eggs fit for their bignesse. They dye by much rayn. They are sacred amolighthe Indians, but not fo in Columbus days, and the many like

CHAP. XXVIII. Sourcetto arange of the formouth with sparkling eyes, the public of the states sunder bard coungliering creft like sundiffiskiese ith. And etition felt.
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The legs are of a Tyriandye, Lightning the Ayre as she doth fly.

She is reported to inhabit Arabia, and chiefly Heliopolis a City of Agypt, where the was feen. Her nost is made of spices, namely Ciramon, and Casta neere to Nilus; the fits in it, and by waving her wings the kindles a fire, from her after a Worme broods, from that a young Phænin. Oppian doth nor so much as speak of the Worm. Men write diverfly of her age. The common opinion is 500 years? some fay the lives 1461 years. But all this is false. The woodpickers have a sharp bill, that is hard round and strong, to pickholes in Trees with. They have a long tongue, that is extended to the hinder part of their head, and is wrapped up over all the crown of the head like a clue of yarn, it is exceeding sharp, and the end of it is griffly. They feed on Wormes, and when they feek for them, they will so exceedingly make Treeshollow, that they will throw them down. Arift.1. o. hift.c. 9. Their nest is made so artificially, that the sticks put together they make it of, are better to pull a funder with ones hands than to cut in peices with a fword. Pliny reports that the young ones come forth of their eggs with the tayle first because the weight of their heads turns the eggs upfide down, and so the dam fits on their tails. They never fit on stones for scar of hurting their sharp claws. They climb unto the top like Cats, and that backwards. In what Tree feever they breed, no naile nor wedge can flick in it, but when it is fastned, it will fall out with a cracking of the Tree, Plin. 1, 10, c, 18. Men suppose that the hath the greater Moon-light, an herb, that increafeth and diminishedi.

CHAP XXVIII.

Of the Pie.

Fig He Pie almost every hour changeth her note; the learnes and loves to speak as mendo. One at Rome hearing the Trumpet found, at first was astonished, but came to her felf, and did perfectly imirate the fame, Plutarch. If the be catcht in a Snare, the will move nothing but her beck; left, moving her body, she should be more enfnared: when rapes are fowed, then is the time for her to moult her feathers. Her feathers being pul'd off, and her guts taken out, if she be boyl'd in White Wine fill the Wine be confumed, and the flesh part from the bones; and then she be bray'd with the broth, and so Let for three days in the Sun, and then applyed to the eys with a fine rag, it will cure the roughnesse, darknesse, and reductie of the eyes, The Pye that feeds on moste, thath blew ourthwart marks on the sides of her wings, you shall seldome see the like in any other bird, she hath a throat so wide, that she will swallow Chestnuts. The Pye in Brasil hath a bill two hands breadth long, and one almost in breadth, mea-

Of the Peacock. Chap. 29.

tured from the bottom of the lower part, to the top of the hpper parr. The fubstance of it is very thin like a parchment; yet bony, Thining, hollow, and most capacions as the Bar; also it is dented and made up as it were with certain skales ; the feeds on pepper, but the presently casts it up again raw, and indigested.

Of the Pracock!

Told Peacocks were rare in Europe; when Alexander faw one in India, he forbad to kill it on pain of death; but afterwards in Atheneus his time they grew fo common, that they were as ordingry as Quails. In the Land Temistana, they lay sometimes 20 or 30 eggs, Martyr. They are so cleanly, that when they are young, they will-die if they be wet, Albert. When they want cooling, they forcad their wings, and bending them forward, they cover their bodies with them, and fo drive off the force of heat: but if the wind blow on their back-parts, they will open their wings a little, and fo are they cooled by the wind blowing between. They are faid to know when any venomous medicament is prepared, and they will fly thither and cry. Alian reports, that a Peacock will feek out the root of flax as a natural Amulet against Witcheraft; and will carry it thrust close under one of its wings. The Peacock suffers such lenguithing pains as children are wont to fuffer when their teeth first come forth, and they are in great danger when their crest sirst grows out, Palladius 1. 1. de re rustique c. 20. When in the night they double their clanging note, it forethews rains at hand. The cause is faid to be, that by doubling of that troublesome noise, is shewed, that with heat that sharp vocal spirit breaks forth, Mizaldus. Their flosh will not corrupt callly. After a whole year it will not flink, onely it appears drier. Antonius Giggs gave a piece of the boyl'd flesh to Aldro-vandus in 1598; it was boyl'd Anno 1592; and it was full of round holes quite through, like a fleve, out of which, if it were a little flidked, dust did fall, as rotten powder doth out of some Trees, it was falt in taste, and somewhat bitter, Aldrovand.

CHAP. XXX.

Of the Pheasant and Sparrow.

IN the Country of Carium, Pheafants were so continon, that the L Christians coming thither, bought them for two little pins apieces Martyr. 1.8. Decad. Frederick Duke of Saxony let fly 200 in Saxony and forbad any man to catch them. In the places of Scandinavia, they lye under the Snow without meat, Olam; When they grow fat they

lose their feathers. The Sparrow doth so fear the Hawk, that one that was purfued flew into Xenocrates's arms. It is the luftfullest almost of all Birds; for it hath been seen to tread 20 times in half an hour, Scalig. It will devour venomous feeds without any hurt. Some ascribe that to the smallnesse of its veins,. An herb, the name whereof is not known, being put under ground in 4. corners of a Cornfield, will drive them from the Corn, pliny. Others bid carry a red Toad through the field by night, before it he fowed, and to be bilried under ground in the middle of the field, thut up in an carthen veffel. Yet, left the corn frould grow bitter, it must be dug up again before harvest. Those of Taprobana, when they are in the deep 3ea, levely Sparrowes they brought with them for that end; and by their conduct, because they know not the use of the Loadstone, they find the way home, Appliance of the contraction of the extendent South to the first of the state of the state

CHAP. (XXXII. No Sent of Self-

of the Partridge, and all a committee of

IN that part of the World that is called the Continent, Partridges I have a double flesh, so apparent, that it may be discerned; so great, that the greatest glutton cannot eat one at a meal, Gonfal Ovicdus. Their testicles in venery increase wonderfully, but there appear none in Winter, Aristotle, 1.3. hist. c. 21. They are so salacious, that when the females are wanting, they will couple amongst themselves, and with their young ones: when they are present, they are filled by the males with wind they fend forth, also by their cty and flying upward, Plin. 1.10.0. 33. Ariflot. 1.5. c. 5. Their fruitful fpirit is thought to perform that, which Ephelius interprets to be a vapour; which carries the heat arising from the generative feed of the male, and which being received through the pores of the Partridge, penetrates as far as the menstraum of her. Their young ones are impatient of delay, and break forth of themselves before, the eggs be opened; and making a passage in the Eggs, so soon as they, san put forth their heads and feet, they run away with the thell on their backs, and feek for food. Odoricus de foro Julii, thews us their docileneffe, and faith, That in the Countries about Traperunda, which was formerly call'd Pontus, he faw a man that drove 4000 Partridges and more he travelled by Land, and they flew in the Ayr, he brought them to a certain Castle call'd Thanega, that is 3. dayes Journey from Trapezunda. These Partridges when the man rested, would all rest about him, as Chickens about a Hen; and then he took of them as many as he pleased, and the rest 910 brought home again. The thing the same carean is a second of the second of the

THAP.

CHAP. XXXII. The Control of the Line of the Chapter of the Offich.

He Offrich, hath a small head like a Gooff , not covered with feathers, with cloven feet, Ariflot, A. hift. He is too big to fly. yer sometimes he runs swiftly, the wind entring under his wings, and extending them like fails. It is certain he will out run a man on horfeback. He is a fruit-cater. He will swallow small pieces of bones and stones greedily, but he casts them out again; also pieces of Iron. How should be digest them, for a Lion that is hotter cannot & He makes a nest of fand, that is low and hollow, and fenceth it against the rain. She layes above 80 eggs; yet the young ones are not all harcht at the same time; The eggs are very great, as big as a young Childs head, weighing about 15 pounds, they are extream hard, and the shell is like stone. The young are bred of them by hear of the Sun; some, because they saw this Bird looking on them, thought the young ones to be hatcht by her eye: She is wonderfull fimple; when the hides her neck in a buth, the thinks the is all hid, and

CHAP. XXXIII.

Of the Scythian Bird, and the Casttel:

F the Scythian Bird, Aristotle writes thus: There is (saith he) a Bird that inhabites the Scythian Land, as great as a Bustard, which produceth two young ones; and the oggs the layes, the det not sit upon them, but leaves them wrapt up in a Hare's or Foke skin, and so layes them up on a high Tree. When the hunts not, the flayes and keeps and defends them. Hood with the high thole A Castrell is most loving to Pigeons; wherefore Country men

put the young Caffrels in Earthen pots, and fence them with putting on the Cover, and fallning them with Gip, they place them in forms corners of their Dove coats; this makes Pigeons love the place : Ho so frights Hawks, that they fly from the fight and cry of him. Columel. will lye hard under the Santan and the state of the state

teathers, now do they VIXXX . AAHO
when they are there. VIXXX . TAHO
wax borac the classes all in profit both, thurst for the classes bear, all in profit both, thurst for the classes bear, all in profit both.

Intento we styreth

Hrulhes were amongst the Roman's formerly great dainties; for at Rome they were fold for 3 denariisthat is, 12 pieces of money apiece, Varro, a very copious Authour, faith; That out of one Cage 5000 Thrulbes

Thrushes were sold at the faid price; faith he, In a Farm of my Aunts, in Sabini 24 miles from Rome, there is a house for to keep Birds, out of which alone I have known 5000 Thrushes fold for 3. denarii apiece, that that part of the Farm yielded one year 6000 Sestertia, twice as much, faith he, (speaking to Axius) as thy ground of 200 Acres yields really. The Thrush of Agrippina shews they will learn; for this would imitated all mens speeches. It is a wonder, if it be true, that Thrushes should be so deaf. Scaliger hath a delicate Copy of Verses of the singing. Thrush. We will here set them down:

Sweet little Thruss, little Throat,
Abating cares with thy small note;
trith thy melody be so kind,
To pacifie my troubled mind.
And let thy waymbling breast
trith thousand tunes at least
Free me from gulphs of cares,
O Prince of happy Ayres.
Little Bird, King of Voyce,
That makes thy Lord for to rejoyce
whenhe awakes, with the clear note. That makes my word job. swhen he awakes, with thy clear note, Sweet little Thrufft, little Throat.

CHAP. XXXV.

Of Urogallus.

Rogallin is found in the highest Mountain tops; in Germany, and the Northern parts, he most delights. Encelius 1.3. de lapid.e.54. writes of his wonderfull copulation. For the Cock of this kind doth spit and vomit out his seed in the Spring when they couple, and with a loud noile calls the hens, who gather up the feed was cast forth of his mouth; and they swallow it down, and so they conceived Then the Cock treads them, and ratifies as it were the feed eaton. Those hens that he treads not, do bring eggs that are windy. Olaus Whathis writes, that in the Winter, in the North, the leffer Wrozall will flye hard under the Snow two or three moneths. But in Panne they lay in Winter some Birds are found, that neither boult their feathers, nor do they feel when their feathers are pluckt out, nor when they are thrust through with a spit, but onely then when they wax horar the fire. It is hardly true. The greater Grygallus is so deal, that he cannot hear the noise of a great Gun.

Lato calls the Bat, a bird and no bird. Valla half a Moule. loves Caves and holes in the earth. In the hollow place of Apendinum, there were some thousands that lodged. At brings, forth the young ones ready formed; when they are bred, they are first like voung Mice, smooth and naked as young children: She suckles het young ones with her milk, and the casts them especially between the hollow places in Tiles or roofs of houses. They stick to fast to ther Acats, that they cannot be pull'd off when theis dead. Sheythe, second day after the hath disburdened, hor selfiofithem, flies to find food; but in the mean time the devous the fecondinas Sometimes the is bred of putrid matter. Frifius faith, the proceeds from a flokly excretion of the Ayr; the flyes with leather wings; or at Ifidare faith, born up with the membranes of her arms, flying winding up and down, and not far from the earth. When the is weary the hangs by her claws, the rudiments whereof they have in the middle of their wings: she will fly also with two young ones in her hosome. They car Gnats, Flies, Bacon. They will forear a flirch that hangs hyla beam, that they will lye in the hollow place. In hot Countries they will fly at mens faces. In Darienea Province of the Newl World they troubled the Spaniards in the night: One fof them fell upon a Cock and Hen, and bir the Cock deads Mantyr . Phympiling azaling faith, That in the East-Indies some are so great, that they will strike men, passing by, down with their wings. The Argument of this, is their carcales that lie all over the Vale. The Storks eggs grow barren, if a Bat touch them, unless the take need by laying Plane-tree leaves in her neft: It is killed by the line I and moke of Ivy, Alian de animal. Locusts will not flye over the place, where Buts are hang'd on the Trees that lie open! The biting of it is cured with Sea-water, or other hor water, or with horalhes, as horas one can suffer in strabo faith) That in Borfippa a City of Babylon, where they are greater than in other places, they are pickled up for food. So in St. 70hr's Island they are skinned with hot water, and they are made like chickens with their feathers pull'd off with us; for their flesh is very white. The Inhabitants of the Isle of Catigan in the Scaldel Zur, do cat them. They are as great as Eagles, and as good meat as Hens, Scalig. Exerc. 236. f. 31

CHAP. XXXVII.

of the Vulter.

File Valter hath filthy and terrible eyes, and a space under his throat as broad as ones hand, fet about with hairs like Calfs hairs, Bellonius I. 2. oblerv. c. 1. He hunts after Cattell in Chyla a Province of the West-Indies, and that not from Sun-rising till Noon, but from Noon till Night, Monard, de Arom. Some fay, that the males are not bred, but the females conceive by the wind; which is false: for they have been seen between worms and Augusta of Trevirs go couple, and to lay eggs; Alb. Mag. They are so libidinous, that when they are kindled, if the male be absent, they will tread one the other, and conceive by a mutuall Imagination of lufts or effedrawing dust by force of desires they will lay eggs. When he wants his prey, he will draw blood from his thighs to feed on. Simocatta writes, that they are great with eggs 3. years. He hath an excellent fight, for he will see when the Sun risch from East to West; and when the Sun sets from West to East. He will finell Carrion 100 railes, Aldrovand. Avicenna faith, That he fees the carcafes from alost; but Aldrovandsa writes, That the wind carries the sent of chem to him. He hath an exquisite sense to perceive. He lives a hundred years. If you pick your teeth with his quill, it will make your breath fowr. A kernel of a Pomegranate will kill him, Plin. 1.30. c.4. Alian: 1.6.0.46.

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A Principal of the Control of the Co that defect a wad other a feet in ्रिकृतिक स्थापन विकास के अधिक let एक अने हैं के देश है और को पार्टिक किया है की है कि है कि है कि है कि है कि bouring placets which as found so when either the area of this in the foods to read brus gates was the Treass for a lath were the actions

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CAMAR NAMED

Wherein some things are taken out of a Treatisfe of Michael Maierus, a most samous. Physician, concerning the Bird that growes on Trees and was at a reconst

Hen one shall read; that there is a place in the World, where Geefe grow on Trees like Appless perchance he will be doubtfull concerning the Thath of it; and question the Authout And any man shall fay, that living Creatures are bred, not onely of ones but of divers kinds, from Trees and vegetables, that pare will thus and part will not fly; ha will have enough to do to make good what he fayes, if he would not be accounted a Lyar: Yet I think, it may be casily proved by what we have said already, where we have aid ferred, from experience, that Gnats are bred in Okes, and mosse of Okes; and Worms are bred in other Trees and Vegetables; which, though they be small creatures, yet are they reckoned in the number of of living creatures, because they feel and move: Yer I should not affirm the first as the words found. For Birds make their nests sometimes in Trees, hedges, bryars and other vegetables; but that they grow there like pears, is incredible. There is one of the Canary Mands called Ferro, where is a Fountain of sweet water concealed (and there is none besides in the whole Island) in some Trees by a avonderfull Indulgence of Nature; the leaves do draw abundantly Ewater out of the Earth or Ayr: which they drop down for the Inhabitants to drink. For should they want this boon, no men nor Catteli tould live there; for there are no Fountains; but the Ocean or faltwater runs round about it. The great bounty of God hath afforded water to those, to whom it is denyed in other considerations... As in Egypt where there never falls any rain, Wilm overflowes to fupuly that defect; and other Countries have other gifts given them. So also is this bird afforded to the Isles of the Oreades, and other neighbouring places, which is found no where elfc. Yer should anyman look to find him growing on the Trees, he might wander all the Bb a

Woods over and find none, nor yet, do Pyrats amongst the Ferrenses find water, but are forced to leave the Country for want of its nor can they find it in the Trees. Concerning this bird that is no Fable other very learned Authors have written, making mention of it also in their other works, as Hieron. Card. de varietat. rer. c. 36. Du Bartas, in this iveeks, the 6th day, and I day of his 2 week. But they all do not approc of the places and manner of its generation. Munfler faith, the Preades are full of these birds, Gyraldus speaks of Ireland, Dubartus of Scotland which he calls Luturnen, as also Mela writes. Heston Boetius relates the same things of the Hebrides. A French man understands it weonderning any part of the Hesperian Sea. Hesaith, a certaine birdion bred mith, out Cock or Hen, but only from some vegetable, namely in Scotland from the Trees of that Country: Alfo Ships made of the fame Trees, when they were in the middle of the Seas produce the same fowls. The French call them Marquerot. les is is good to eat. Plutarell makes mention of the fame bird, in a treatife that begins whether an Egge were first or a Hen? The Scotch call them Klekques, Others write of them thus. In the Oreades Mand, and Scotland; there is a Tree by the Sed side, and on the banks of Rivers, that beares fruit nor unlike to Ducks, and when it is ripe it falls down into the water, and (wims away alive), and betomes a bird; if it fall on the the ground it corrupts. Others call them Barnacles, As also in the ittle Theatre of the World, they are alcribed to Ireland, and arashus deciphered. There are also here Birds called Barnacles growing by nature contrary to Natures order, not unlike to Ducks, but only they are leffe. For from wood of Masts for Ships, first comes forth fome kind of Gum, then with weed (or Sea grafs calld'd Wier) fome shell-fish sticks to those kinds of wood together with the pitch which in time get wings and become Birds , and fly or fall into the waters, and fwim. I have often feen (faith Silvefter) abundance of thele Tree-Ducks hanging on the Wood, inclosed in shells till they could fly. They lay no eggs as other Birds do, nor are they bred of eggs... In fome places they care these Birds for Fish, and non for Flesh. Hellor Boetius tells the same History of a Bird, he calls Clakie. For saithhe if you cast Wood into the Sea, about the Hebrides, in-time Worms will breed in it, that care that Woodhollow, and afterwards become Birds, and are like to Geofe, flying. Hee afcribus the generation of shigh to the Sea, called by Homer and Virgil, the Father of all things. But these different descriptions of Authors do naither, agree amough chemselves, nor in all things with the truth it selfe. For the places fome fay it is the Orchades; others Ireland; others the Hebrides, others scotland, and all this may be true, fince in the Ocean between Scotland and the Oreades, and Ireland, and the Hebrides, they are said to breed in both places. For it is no fmall extent of place where they are but all that compasse of the Sea in the outmost bounds of scotland land Ireland. For the name, there is no differences for divers Nations usedivers names. But whether that faculty he to be deribed to the Woods or Trees of those Countries, or to Myorms that breed from those Trees, and are changed into Shell-Piffig is worth Enquisionite the

Horementioned Authorits were of to various ophidis was burney with a confent with none of them. For were this vertile in the Wood Away should not the same kind of Wood used for Mass have we same the culty in all places, yet that is not for nor do Ships made of that VV by produce fueli fewle in the middle of the Sea. For who ever heard 4449 Inch thing done in France, Germany, or England; yet are all these Prop wens frequented by Scotch Merchants, and Ships from the Oreades! NO wan this bu referred to the Trees, for they beare not birds burffull by their own kind. Afthey be cut down and turn'd to other uless killed calbintothe Scay to corrupt and grow totten; that is, that they had deenbrewere, as wheir first being, and beturned involve common materiof Woods then begins this new generation of living Creatures by the influence of the Heavens, and the Suns hear coloperating. For Avor thould a vegetable, produce a flying Oreature like a Odole 1018 Hor every Tree known by its specifical fruit, whether it be good or bad Againe doth not every kind of fruit; restify what Tree ie Wasibred bill Trees do not beard find not the Sea, Trees !! Hares use to be found to Woods and nietry conceits in words, and not the contrary. AVI getable doth not couple with an animal, nor an animal with a vege eable; thach keeps its own rank; and doth nor exceed it, unlesse New -ture using the help of putrefaction, do produce fonto finall living Ercatures in vegetables, as I faid before! They that think that Worms may become fowls, do not in my Judgment; speak what is probable. For how should a shell-fish come of a Worth a yet understand me so, that what I deny of each by themselves, I would grain of all together. But because I know this not by heare-say's but I have feen above 50, (almost hundreds) of these thell-fish, and when they were opened, Thave feen little young Birds coming forth as out of the egge, with all their parts necessary for flight; and I have had thefti in thy hands, I must not omit here to set down an exact description of them; and this it is. If perhaps some pieces of Matts of Ships Threer'd with pitch fall into those Seas in the outmost parts of sibilmen, mor hir from the Oreades or Hebrides, and Ive there a long time within introfily grow rotten and full of Worms, but are covered all dute with stalweeds; for of fuch grafs there is abundance there; which cleaves to any Wood casily, especially if it send forth a pitchy faint he as Malls that are fitre or pitch Trees, and are full of pitchy Rolling and dren for Ships occasions are again beforeerd with the fame, tradition Ty charthe fayls may fuddenly be hoifed up and pulled downs and fully nowhere. Now the Sea breeds those weeds at the bottom needed the Thorage that are longer or shorter, and these at certain times with on the top of the water; being moved or pull'd up, as it were, by the waves. This, Bred in the water, doth not cafily corrupt, having much of a falt nature in it: wherefore in North Holland, and mails other places they make of those weeds a strong fence against the vib-Ibned of the Seas for that they fetch a remedy from the difeafes which Aprel the le veced hanging round about the faid bieces of Mais infinit-'are abundled we they romen placed y and in the long the other fide

of each grais will grow finall mellithin, which are which wor of that colour of a Mans nayly, and in forme, hollownesse, and long fashion; like to the nayle of a man's little finger; whereof if two belowned to: gerlier that they may flick well, the upper parts being the fliat pelts. they take hold of the colds of the weeds, and are fast thut in the broad der parts; which afterwards open, that the fruit may come outto: flye. Thus a thousand at least of these shell fish are fastned to the weedsar the ends, which as I faid are faltned to the pitche Wood, with the other end, in fuch plenty, that the VVood can hardly be feen; ever eliofe weeds do hardly exceed 12 fingers breadth in longth 3 and are to firing as thongs of leather: fomtimes they are longery and are forne-feet-long. This is the whole external description; Roryou can acenorhing but a piece of a Mast full of rotten holes, and Sea W/eeds thrust into them, having at the other end shell-fish, like to the navle of a Mans little finger. But If thefe shells be opened; those small Birds appeare, like chickens in eggs, with a becky eys, feet, wings down of their feathers beginning, and all the other parts of callow Birds. As the young Birds grow, fo do the shellsor covers of them, as they do in all other Oysters, Muscles, shell-fish, snails, and the like carriers of their houses. It may be asked how they get their food ? I answer as other Zaophyta do 3 partly from the sweeter part of the water, or elfe as shell fish that breed pearls, and Oysters do s from the dew, and rayn; partly, from the pitchy fat of the rotten Woodjor. the refinous substance of Pirch or Rosin. For these by the intermediant grafs, as by umbilical Veins, do yeeld nutriment to these Creatures, so long as that Wood is carried by the ebbing and flowing of the Sea, hither and thither. For were it on the dry land, it would never bring forth the faid shell fish. An example of this, we have in places neere the Sea, where those shell fish are taken alwaies with black fiells, sticking to Wood put into the water, as alforo the woodden foundations of bridges, and to Ships that have been funk, And they stick either to the wood, by some threds like to hayrs, or Mosse, or elseby Sea Weeds; whence it is evident that some clammy moysture is afforded to shell-fish sticking to any Wood whatsoever, though it be Oke, but much more to firre Wood, full of Roling whereof Masts of Ships are mader For this Wood is hotter than Oke. and hath much aeriall clammineffe, and therefore takes fire fuddenly and when it is wounded, while it is green, it fends forth an oily Rofin; but when it is dry, it will eafily corrupt under water ; but the Oke will not because it is of a cold and dry nature. It longer relists corruption, and under water grows almost as hard as a stone. On the contract of

If any man will consider the abundance and diversity of fish and living Creaturs which are bred in the Seas every where he cannot but confesse that the Element of water is wonderful ferrill, which breeds not only the greatest living Creatures, (as Whales, whereof some as Pliny writes, 1, 32, entred into a River of Arabia, that ware some foot long, and 300 foot broad) and that in such abundance and war is that the same Authour reckens to 176, kinds of fish in the Sea soly, besides

bolides the label in Hivers, But one would chiefly Admire great diseglity and beauty of Sea Mell film ton I remember this law as regisedam, Anno 1611, with Peter Carpfeller a very lamous man, above a thouland leverall kinds of them, in luch pigity, that he had a whole Chamber full of them, which he kept as the pretion treasures and miracles of nature. No doubt but these are the Entires of Marures bounty s for they rather ferve torthe ornament of the world that for mans use, wherein you may see a kind of an affect of curiolisvan the variety of the forms of them, Hence we may conclude the great fruitfulnesse of the Sea, which doth exceed the Land in broading of living Greatures, and vegetable animals, which the Antients observing they ascribed to Neptune, who was god of the Sangarear multitudes of Children begotten from divers Concubings called Sus Nymphs samong fithefewere Train, and Prophetos where of the founding a hell fill is his Father Depunes Frampetens but this is changed into various forms, as into fire, a Serpent, and fugh likoly oleanly reaching than the Sea breads divers torms in the awole

Thefe causes seemed to move them who ascrib'd the generation of these Birds in the Oreades to the Sea, alone, as boing the Authour, of stuitfulnesse, and of diversity of Creatures. But how rightly they did that, shall be seen. We deny not, but that many pretty shelle fishes are bred of the Sea, onely from the influence of omniporant nature; fo that the Ocean affords the place and matter of them? but northe form and the cause efficient. All she fish, except a few, and bred of the feed of other fish, naturally to and here can be no question of these. Yet we may doubt whether so many kinds of shell-fish do breed from the feed of other shell-lish. It is manifest of the forelaid Birdy, that it breeds neither from an aggsyas other birds do nog vot from feed. Whence then? From the Ocean's or multithe caule the imputed to the Ocean? Not at all. For though the place be faid to generate the thing placed, yer that is understood of the matrices that are the gaufe of generation, fine quanon; but not the efficient caufes much leffe the formal material and final, and non concerning overy generall thing containing. But to fearth out more exactly that nature of this wonderfull Bird, we will run over those four kinds of causes not doubting, but having searched our thele as we ought what why, and from whence it is, will easily be resolved, in The Efficient cause therefore of this generation, is external heat, such as the Sun fends forth into sublunary bodies; as also in the internal heart in the matter corrupting. For without least nature produceth no get neration, but useth heat as her chief Institument, whereby homogeneous things are congregated, and heterogeneous are parted at the parts and bowels are formed in living Creatutes, and are disposed in thoir orders and figures. In Artificiall things that men makes they use divers Instruments; as their Hands, which may be call I the Inc Arimont of Influences, Hammers, Anvils, Files, Sawes, Wimbles, and the like. In natural things, there is onely Hear as the officient coule seand Nature disoversities the Arthresides support The out belides

ward hear brings the internal into Action; Without which, this would be uneffectual, and thut up in the matter as dead; as it appears in some living creatures, which when Winter comes, and the outward heat fails, they are as it were afleep, and lye as dead, as Swallows, Frogs, Flies, and fuch like: But fo foon as the Sun beams heat the water and the earth, presently these little Creatures revive: as owing their lives to the Suns heat. And as the heat is greater, to is the efficacy thereof, and their flying about and crying; as we fee in Flies and Frogs. As for heat, the Sun, the great light of the World. is the Pather of it; which it fends upon all earthly creatures, enlightning and enlivening them. Hence men fay, that the Sun and Man beger a man; namely, by the intermediate feed. Otherwise it proceeds of another fashion, when without those mediums, in things are bred of putrefaction, as we faid before. For when the folar or elemental hear incloseth any mixt body, wherein natural heat is included; this is raised up by that, is moved and stirred to perform its operations; as appears in the hatching of eggs by artificiall hear of Furnaces, or natural hear of the hens. For in the volks there is a hidden naturall heat, that is stirred by the external heat; To that, by circulation of the Elements, Water is turn'd to Ayr; Ayr into Fire; Fire into Earth; Earth into Water, and the Chickens limbs and entrals are formed and made by natural heat, which is the principal internal Agent. The Material cause in the generation of this Tree-Goofe, is that clammy matter of the wood of Firre, or the Rofin and Pitchy substance of it, upon which the outward Suns heat doth work; and the internal heat increased in the corrupt matter. This matter though it be small, yet may well afford the first rudiments to this Embryo, which is afterwards nourished by the clammy substance of the Ocean, as Oysters and other shell-fish grow and increase; for neither the hard substance of the wood, nor yet the weeds affords any matter for it; for the one is observed to be the container, and the other the conveyer of the true matter. For as in the generation of Man, neither the Matrix, nor the umbilical vein do afford any matter, but are required as necessary instruments; so must we judge here, of the wood, and the Sea-weeds. Some will have it, that from the worm bred in the rotten wood, there should be made fome transmutation, and that the worm doth afford the first matter for this generation; yet that opinion is false, for that Worm cannot come forth to the end of the weeds, nor can it make shell-fish, but that must breed at the end of the weeds; nor doth it come thither from any other place, that it can go from place to place by an animall mos tion, before it receive its effential form. Pliny writes, that the Fish Pinnother is so cunning, that he will hide himself in the Oyster's and as he growes, he will go into such as are greater; but to imagine any such thing of that Worm that eats into the wood, is against the nature of it. But it is no doubt, but that the rollingus and pirchy matter may communicate fomething to the end of the weeds, which yet nature must do by a way we cannot perceive ; as hatule useth

An Appendix

in all other generations fuch wayes and means that we kapbutter think and judge of by reason; than see with our eyes. For who can fee how the heart in the generation of living Creatures is fifth for? med? What fibres and veins nature useth there for her Instruments? how and by what means this is done; and when it is done, now the disposeth of the other bowels, and makes them of a somball and menstruall matter: There was never man yet found so quick-sighted! that he could fee these things whilest they were doing a but when they are done, reason can discern them. So no man could yet say? how this matter, that was first radical mousture in the woods could paffe to the ends of those Sea weeds, and should be formed there a weet it is plain afterwards, that fo it was made. Nor will that be fo hard, for the matter to passe through the graste to the end of them; as to passe without any medium.

But the greater difficulty is, and most worthy to know, the Formal or feminal cause of this wonderfull birth; which since it is nor contain'd in leeds; for here are none to be found; it must needs enter into the matter, otherwise than in other kinds of generations. Forthe feeds of both Sexes in living Creatures which are mixe together in copulation, are as it were the sheaths and cases of the forming special maticall faculty; , which forms the præ-existent matter of the seed or blood into an effentiall form fit for that kind; that the feeds bea long unto, howfoever they are mingled or drawn forth into act. That force of nature is a bleffing given to her in the creation, in the word increase; which word was never idle, nor shall be whilest the world endures : God spake; and all that God said were made very good! containing in themselves principles to multiply their own kinds byte because individualls must perish. The Heaven with its Stars shall last from the beginning to the end, and the entire Elements, Ayri-Water, and Earth: But things compounded of them, as they dy, for they are restored again by multiplication of seed, not the same in number, but in kind; not by external form, but by that form (which) is internall and effential. But fince that God gave this Commission) for propagation to the fublunary World, and this alwaies proceeds by mediums; though in the production of these Barnacles there are no visible seeds, whereby the matter may receive its formy where2 fore it is consonant to Reason and to Nature, that the form must come from some other place into the matter, lest any thing should seem fines the Creation to be made of nothing, contrary to Gods will. For nothing is the cause of itselfe, or forms it felf, but only the eternal and infinite God: All other things indeed were made by him of no! thing, but not by themselves, nor are they propagated of nothing; nor from themselves; but from means appointed by Nature. Plate: fets univerfal Ideas of every species of things subject to generation; fixed in a certain place from whence a formative force defrends ; to hegerand make all individualls to be made: This opinion as pleasure i burnot true. For there can be no universal substances (save in the tonceptions of Mensminds) but only individuals, the cantibe give, ? 202

what they have not and what they do Bix a striggican all waips hold themselves. Nature is in all things as in individuals dispersed with oxer s. which yer operates in each individual according to the condition that every one of them requires, which is true in all things that haveleads, for thole are the very subjects and vessells, that pature works upon. But the question now is, how that faculty is imprinted. on the leads, and from whence? whether from nature? If this hearigest then of every matter the makes what the will when as the san imse print what forme the please on any matter. And then howers pass ture in this Barnacle, that hathno lead, visible presupposed marred to generation; and in other such like things bred of weer untersection as As in man there is an imagination and sogirative force, which is poon formed by a subtile Artifige of Images conceived in the braingarificon first from the outward fenses, and so proceeding to the inward parted of the brain, by a local motion and without any changing of the place, only by calling to remembrance, things ar distinguated distance, which were seen long before, or were done, or thought of or So in the Suna the Heavens, the fixed Starrs, there is a kind of image quartive vermo; nor passing as in animals, but purely a criver which by Incall motion comes thence into fublutary bodies, and is communic cated to certaine subjects and to seeds of individualls. And this is that form that first begins and increaseth all generations communicating; the effence to every things that it shall be such a thing, and moranous ther. This force is the first moveable, frameing its subject was nor Architect, and one that frames her felf a house, where to dwell it that the governs to the condenar Nature the artificer affigns itis Thides is the spermatick faculty of that resides in the body of the seed in wither out which this is barron and vain, nor doth promote any generations? If this by time vanish, or by breaking the Container of it; there fold lows no fructification, as appeares in Corn , which if it growiold grieve be ground to meale, it can propagate no more. Or why doth this power reside in that body rather than in another, and worisher prefently afterwards ? I answer there is no other reason to he givery than that Nature rejoyceth in such means, and hath included that worrus? that it cannot flye away, if it be obedient unto, manrely which if thes would, the could have put into other subjects. In It is admirably straut the animal spirits in men are contained in thomesves sinop de they? flycout of them into the Ayre; and when those increes are profied; their passago is stopped, whence astonishment on a passey for whime: feafeth on the foot or arme; which is by andiby removed by the spinit rits succeeding into the nerves. After the same manner, that imagin native vertue of the heavenly bodies; especially of the Sungailies paffe into the individual subjects for feeds of thingsy it naturally rear mainesin them at the will and pleasure of nature in Buc where dienel are no feeds, there the fame vertue of the Honvens is continuinteated to fomo certaine matter immediately and this weneration and this far and clammy subjects to which we spake before it dises mornism that a cause. For there are two thingsimall seeds, the Elementary mar-17. 11 11/16

ter, and the celestiall forme, the latter whereof may perulis the matter and externall forme remaining chilte, but nothing of that was generated out of the matter, when the celestial forme is lost. Marter in this generation is in time before the forme, and receives it by influence, though it be not deprived of any forme it had. If peak of the first matter, but the subsequent forme, if it do not take away the first forme, yet it perfects it. But it is a question, Wherefore this formal force (as for example, in making a bird) is not fent into every matter, or into any whatfomever, when as it is received with out certaine vessells, or bodies of seeds? I answer; that matter, so prepared in such wood and not in another, and in such a place and not in another, supplies the place of a seminal body; whose qualities not being in another, therefore noe other subject is capable of that formal and determinate vertue. There are examples every where of this Imagination, or celestiall Influence, namely in some places of the County of Mansfield, where Mines of Braffe in a stone that may be cut, do shew forth all kinds of Fishes, and the forms of such as are in the next Lake, as we may see Teeth; Horns; and Lyons to perfections formed by nature under ground in hollow Caves and other places. In Amber alfo, which by the Sea Waves is cast on the Thores of the Island, now call'd Sudovia in Borulla, divers forms of fives gnats, spiders, butterflies, frogs, lizards, and other Creatures appear; not really, but only from the imaginative faculty of the Heavens imprinted in it. For if you should cut the Amber or break it to find them, the places would be empty, which nature hath fo fported her selse upon; yet are all their parts and particles so shadowed to the life, that a man would fweare, that flich Creatures are really ancluded in that matter, perchance wrapt in when the gum was moy if But it is no fuch matter: for there is no earthly matter, and which is nor transparent, that is contain'd in those concave figures; which yet ought to be otherwise, fince a corporal substance cannot vanish aways and only the forme of it remaine. Moreover if any fuch living Creatures had fallen into the gummy substance of it; as into Kosin or Turpentine, their wings or feet that are besmeet'd would be seen so; and not extended entire, and direct, which is not so here; but all feem entire as through a Crystall glasse. Farther, if that should fall from Trees into the water, those Trees would be known. Plinyle 37. c. 2. 6 3, writes of Amber thus, Pitheus (faith he) difcovered to the Gutzones, borderers on Germany, an arme of the Sea called Mentonomon, for the Space of 6000 furlongs; from this the Island Abulus is a days failing; from thence Amber is carried by the waves of the Seas, and it is the purging of the Sea congealed. The inhabitants use it for wood to burn, and sell it to the Germanes their neighbours. Timous beleived this, but be called the fland Baltia. Mithridates faith, there is an Mand in the Shores of Germany, and it is called Ofcrica that is full of a kind of Cedar Trees, from thence it runs to the Rocks. But certaine it is, that it breeds in some Mands of the North Seus rand the Germans call it Gleffum ; and therefore our Country men tull one of thoff Cc à

thofe Illands, Gleffaria, when Germanicus Calar was there with his Navy, the Barbarians called at Austravia. It is brought by the Germans. respecially into the Country of Panhonia. Thence the Venetians first, whom the Greeks call Heneti, Spread the fame of it, they receiving that from Panno. mia about the Adriatick Sea. That shore of Germany is about 600 miles from Carnuntum of Panonia, from whence it is brought, being but lately discovered, A Roman Knight, fent by Julian to trafique for this, who took gare of the fencing sports of Nero Cafar, passed over all those shores, where thefe Merchandifes were, and faw fuch abundance brought in, that the nets that were fet to keep off wild beafts from the Galleries, were full of knots of Amber , but the meapons , and biers , and the whole provision for one day was made of Amber. He brought a great weight or clot of it, that weighed 13; pounds. Pliny. In Amber, as it is transparent, that incorporeal figure doth casily appeare; but not so in other dark bodies. Nor yet in the matter of the wood we speak of; In which not only the figure of a bird, but also a spermatick natural force to forme it, nourish, and augment it, and to preserve it in its vital functions, is implanted, as in other birds. But fince it is not propagated, extraduce, from an egg or feed, it neither leaves egg nor feed, nor gives more to another than nature gave to it. For if it lay'd eggs, that chickens might proceed from, the Barnacle had been so bred her self; but neither of these is so. For as a Mule is not bred of a Mule, but from the mingling of an Asse and Mare together, so it doth not generate a Mule, but continues alwaies Barren, as this bird doth. Bees are bred of Worms, the Worms in the honey combs from honey, by a wonderfull operation of nature, though without any sensible body of seed, yet not without virtuall feed imprinted on the Honey Combs by the Bees, which they first had from Heaven.

Nor is it possible, that these effectual and spiritual qualities should proceed from the pure Elements, or onely by propagation; fince the matter of the feed, which is made of nutriment and blood, could be extended in infinitum without diminution of it felf. For we obferve, that the Elements are but like dead and materiall receptacles of the formal vertues, and that the matter of the feed is dayly supplyed, and heaped up by the Elements. And therefore it is necessary that the formative force, should daily flow into the formed seeds; or, where they are wanting, into a matter prepared by Nature from corruption, or other operations. From whence the form of this wonderfull Creature is eafily drawn, namely, that it is an imaginative vertue of the Heavens, or of the Sun, actively infused into a viscous matter of that wood in those places, so disposed by corruption, that it may enlivenit, and promote it to be a new kind of living plant, or bird included in a shell; which so soon as it falls into the waters may swim, and when the wings are grown, fly about. The final cause is the common ornament of the World, the variety and wonderfull works of Nature, the profit of those that dwell near, and especially the providence, omnipotence, and elemency of our good and great God, all whose attributes do appear to mankind as

well from this creature, as from the relt, wither he crowns the year	
with his free office, and the whole earth with variety of Creatures.	
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So that he is far more mighty in creating and making different kilds of living Creatures, than we are able to exprelle them, to nominate	
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OF

Naturall VV onders.

The Seventh Classis.

Wherein are set down the Wonders of Four-footed Creatures.

Seneca 1. 3. de ira. c. 30.

E are troubled with frivolous and vain matters. A red colour makes a Bull angry, and a viper is stirred by a shadow. A pitture will make Bears and Lions stercer. All things that are cruell and ravening by nature are moved with vain things. The same things happen to unquiet and soolish spirits; they are stricken with jealousie and suspicion of things.

CHAP. I.

Of the Elk, and the Ram.

He Elk is a four-footed beast commonly found in Seandinavia; in Summer of an Ash-colour almost; in Winter it
turns toward black. The horns are sit for footstools, each
of them is 12 pound weight, and two foot long. His upper
lip hangs out so long, that he cannot eat but going backwards. Men
write, that he is subject to the falling sicknesse; and that the remedy
he hath is to lift up the right claw of the hinder foot, and put it to his
lest Ear. It holds the same vertue, if you cut it off when he goes to
rut in August or September. He is commended for his swiftnesse, for
he will run as much ground in one day as a horse shall in three. He
is very strong; for a strong blow with his foot will kill the hunter.
The Ramfor six Winter moneths sleeps on his lest side; but after the
yernal equinosiall, he rests on his right. Lianus hath discovered

this, but the Butchers deny it. In Camandu a Country of Tartary, they are as big as Asses, their tails weigh? 30 pound weight: One was seen in the Court of the King of the Arabians, whose tail weighed 40 pound, Vartom. Cardams ascribes that to its cold temperament, when the rest of the bones will no more be extended. Lesting should be choked with his own sat, he sends down the humans and tail.

CHAP

In the Kingdom of Persia, Asses are so esteemed, that one of the His sold for 30 pound of gold; amongst the Pignies they are as big as our Rums, Paul Venet. In Egypt they amone to swiftly, that one will go 40 miles a day without any hurr, Scalle, Exerc. 217 f. 1. She doth sparingly dip-in her mouth when the drinks. She is aftered. faith Cardams. For when the beholds the grear thudbwof her garg in the water, the is fearfull they will be wet." There are forne found in Africa that do not drink: She staleth when she seeth apother stille or upoil a dunghill. For Nature doth stirre them up being lottiful by the actimony of the fmell. Cardan 1, 10. Subtil Observarion proves, that where an Affe hadr cropt a vine branch, the vine will grow more fruitfull. The monument of this matter was feen at Nauplia, where an Affe of ftone was fet up in thankfull rethembrance for posterity. Vadimonius writes, that there is a fruitfull Orchard, in the middle whereof the was buried, Aldrovand. 1. 1. de quadr. c. 21 In Helvaria when they have caten Hemlock they fall affech, that they feem to be dead. The Countrey-men are deceived by it; for off-times they rife up and fright them when they have pull'd off their skins al; molt, Mathiol. in Dioscorid. Sheep will run into the fold, if you pen them in an Asses hall. If one bestung by a Scorpion, if he ill uson on Asse with his face toward the tayl, the Asse will endure the pain; and not be. It is a fign of it, because she will dye farting, Cherulit's Asserbly it is committed and properly the Vite of Domining Nero, 1984 conceived in all 300 times, did Wall het budy in a Bach of Asserbly, think in the state of the s of 'dille,' being the a Consumption, recovered by feeding on Alfes stells. Moreover, there are some in section whose thorn contains on the analysis of the property of the section of the forth: They are to frong, that they will kill a florie to thirth with them. Also that was a wonderfull one that was sent as a first will only that was sent as a free will offer that was sent as a free will offer was the thirty was the free was the way and the was a first was a free was a free was a first was a free was

CHAP. III.

Of the Boar, and the Archopitecus.

IN Crete there are no Boars. In a great part of the New World A there are some that are lesse than ours. Their tails were so short. that the Spaniards thought they were cut off. The fore-feet are whole, the hinder feet cloven. In some parts of Scandinavia they are 12 foot long. Scaliger writes, that the petty King of Salvimons, had a huge one, which would at the found of the horn go forth to hunt with his Lord and the dogs. Archopitecus is a creature in America that is wonderfull ill-favour'd. The inhabitants call it Hahr; He is as great as a Monky, his belly toucheth the ground, he hath a head and a face like a child; and when he is taken, he fighs like to a child. Three claws hang to his hinder feet, and four long ones to his forefeet, like the great prickly bones of a Carp, and with these he creeps up upon Trees. His tail is 3, foot long. He was never found to cat mansflesh, whilest he is alive; and they think he lives upon nothing but leaves, which in their language they call Amohut. When he is tame, he will love a man, and run up upon his shoulders. Thevet left him in the open Ayr, yet was he never wet.

CHAP. IV.

IN one of the outermost Provinces of Asia, between the outmost Mountains of India and Cathay, Oxen are bred white and black, with a horses tail, but more full of hairs, and reaching down to their feet. The hairs of them are most fine, like feathers, and as dear, venet. Brought into Hispaniola they will grow so much, that they are greater than Elephants, Petr. Martyr in Decad. In these parts where we write these things, Guickardinus testissieth that one of them weighed above 1600 weight: we faw one at Leyden that weighed 2970, pound But Ptolomam 11, had the horn of one that held 27, gallons. When the Cows are great with young, men say they carry their young ones on their right fide, though they be great with two. But they that drink of the River Charadrus, not fair from the City of the Patrenfes, conceive for the most part only Males: the same will come to passe if in time of copulation you bind the left testicle of the male with a band; or let them couple when the North wind blows, Paufan.in Achaicis: and if the right, or when the South wind blows, the Cows will conceive a female. The Cows if they be more fruitfull in summer, are a Token of a rainy Winter. For a fruitfull Creature cannot abound with generative humour, unlesse it be moved by a celestiall influence, Albert. Somtimes they are very figree. In the yeare is in Rhetta, between

Chap.5. Of the Buffe, &c.\ between Duria and Velcuria, some of them, brought into the fields from two Villages, fought fo violently that 24, were killed before the combate could be ended. Gefner de quadrup. Somtimes they are puffed up with fullnesse, for the cure whereof they use a Charme, nameing the fwelling, In the name of the Father, Son, and Holy-Ghoft. AMen ! fay that Pythagoria, by whitpering fome words at Tarentum, tuined an Oxe, fo that he for fook bean straw, and followed a Country Man, and lived tobe very Old at Tarentum, eating out of mens hands, Calini, The mok of Oxe-dung will preferve Bee-hives free from Flies, and Spiders, Bullocks blood powred into a wound, will stop the bleed. ing. Also the dry dung burnt, drunk three spoonfulls, will cure the of the Buffe and Bonafus.

Buff is a Creature greater than an Oxe with a bunch on his back, (two or three men may fit between his Horns) for it hath a very large forchead, and curled with haire that smels like Musk-The flesh of it is most fat in Summer, but it tasts of Garlick that it feeds on. It is wonderfull strong, for he will take up a Horse and his Rider. The blood of it is redder than purple, so hor that it will make Iron on the Hunters Speare turn every way, and in the greatoft cold it will corrupt in two houres. In the Scorch woods gothey fo abhor the company of men, that they will not touch the shrubs that men have touched, after many days; and being taken by art, they will dye for grief, Cambd. in Segtia, Gefner makes the Bonafu to be a kind of Bugle, of whom men write that he dungs extream hor when the Hunter follows him; but that happens to living Creatures by running so fast. The intestines grow hor thereby, and heat raiseth winds, which being thut in, they break forth violently through a warrow place, chiefly if there fall out to be any pressing of the places by motion. Alfo' the Cuttle fifth gives, an example, that feare will cause her to cast out her inky juyce. Philip King of Matedon, killed one with a Darrat the foot of Mount Orbelm, the Hornes were I by handfulls, which were confectated to Hercules, and ton a a wall group at.

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of the Camel your control of the Camel of the control of the contr He Camel hath a manifold belly; either Because he hath a great body: or, because he eats Thorny and Woody substances, God hath provided for the concoction. Puddle water is Iweer to hims now will hedrink River water; will he have troubled it with his Root. To

Africa when they have fathed 50, days, they will not cat at night & but when they have their burdens taken off, they will feed onleaves in the fields. Leo Afric. L. 3. He lives a hundred yeares, unleffe the Avre agree not with him. Plin. They serve the Indians to travel with. if we credit Philogratusnor is it beyond his force, to go a thousand furlongs in one day. But that kind of Camelsthe Africans call Ragnail, will go a hundred miles a day for 8, days together, with a very little meat. They never couple with their dams. When as his keeper had admitted him to the dam vailed, when she was discovered, he was so inraged, that she trampled on him, and threw her selfe headlong. Arift. in admirand. Examples shew that they are very docile; when they are longer on their journey than ordinary between Ethiopia and Barbary, they do not whip them forward, but they fing to them. whereby they will run fo fast that men can hardly follow them. One at Aleair danced at the found of a Taber, being taught by a strange art. For when he is young, he is brought into a stove, the pavement being. very hot. One plays on a Tabret at the dore, he because of the heat lifts up one foot: they continue this exercise, and use him to it a whole

210

Leo. Aphric.

In the Land of Grants there is a Creature that hath a head, ears, and neck like to a Mule, a body like a Camel, a taile like a Horse, he is 6, foothigh, and five foot long, his neck is as white as a Swan, There was one brought to Middleburg in Zeland, Anno. 1558. It was called an Indian Sheep. Scalig in exerc, calls it Alla Camelin,

yeare, that coming in publick remembring the hot pavement, when

one plays on the Tabretho will lift up his feet, and feem to dance

CHAP. VII.

Of the Shee Goat.

FITHe report is that Goats see as well by night as by day, wherefore I if those that are blind in the night, cat a Goats Liver they will be cured. They breathe our of their cores and noffrils, if we will credit the Stepherds. Philes gives the reason, because when their nostrills are stopt, they are not hurt, Alian. When the Sun sets, they lye backwards in the fields, and so they do at other times, but one with another. A coass horn taid under a fick mans head, will bring him to rest scraped with honey, it stops the belly flux; burnt, it will taise people in a Lethargy. In Ægypt they are faid to bring 5, young ones. The cause is the water of Nilm that is drank by such as are Barren and want milk. They shew the revolution of Syring. For as often as he risctly with the Sun, they turn to the East and gaze upon it, Plutarch. In some part of Africa, they sheet them, and make Cabels of their haire. Those of Lybia shew when rayn comes, for so foon as they come forth of their falls, they run to feed, and prefently come back

to coviretalistagain, Alan, Thole of Gimanta do nos drink, in fix monellis; But, turning toward the Seasthey receive the vapours with open mouth, and fo they quench their thirlt. The Goat of Mambers will endure a faddle and bridle, and a rider ; he hath gars, that bank down to the ground, and horns twifted below his mouth, admir with de quadrap. The wild ones in Lybia are as great as Oken sulo actives that they will leap upon the highest Mountain tops; and their limbs are fo hard, that if they fall, they neither break their horns, nor hurt their heads, Mian. 1, 14. 6.1.6. And it and to write at 18.2 distriction words to the control of the control BR Vence by Calcium School of the CHAP: William Contract of the School of reach to a man of the control of the most form that the control of Of the Beaver and Colus. Assertant herewith.

Clap.8,9. Of the Beaver, &c.

He Beaver is a most strong Creature to bite, he will never let go his teeth that meet, before he makes the bones crack, Plin. His hinder feet are like a Goofes, and his fore feet like an Apes. His far tail is covered with a feely skin, and he uleth it for a rudder when he pursues fish. He comes forth of his holes in the night; and biring off boughs of Trees about the Rivers, he makes his houses with an upper loft, and when the water rifeth, be lies there, Alberton Wyhen they are cut afunder, they are very delightfome to fee; for one fles om his back, and hath the boughs between his leggs, he holds them fast that they may not fall down, and the others draw him by the tail to their Cottage. Calus is a four footed wild Beatt, amongst the Scythians and Sarmatians, he is for greatnesse between a Stag and a Ram. He is white, and very swift? He drawes his drink by his nostrils into his head, and holds it for some dayes; so, that he will feed well enough in Pastures where there is no water, Straba 1.7. Sometimes they will be 500 together, but about Easter you may see 2000. In March they dig up an herbicby the fent whereof they fire up venery; when that is spent, for a day they lie, as half dead, but wherethey tafte of it once more, they are reftored Gen. orolly And spiciffy the area of value and a second surface of the second and a second seco and then be each wene lanxionia A Property of the control of their ish in alphop writers. There in the a case of allowed and a course by the interand there are the of the Cat and Concyloinment substitute to egonyd fest i finne ir is redgiffit from the bear't beath one i e non byn ty Man He Cats eyes are fo good; that the will fee any thing in the darki

Albert :: The Cat by the Egyptian Sea is obletved to change the pupils of his eye, as the Sun dorn alterd of They are long in the morn inground at noon; when the Sun fersthey are oblauted, Athin Alla commonly playes on his back, that he may look round about Cut Aff his care, he will fray at home imore stor he cannot and we then dien charful into his cars. If a call halufalkippod manufaithe it will Rick there. Honce matter is heaped togishers that cause in Sprains

Of the Stag.

Jour diseases: Scaliger faith, That in the Province of Malabar, there are wild-Cats dwelling in Trees, they leap as though they flew, having no wings. They have a membrane firetched out from their fore-feet to their hinder-feet, when they rest they contrast it up to their belly; when they begin to fly, by moving their feet and thighes, they are carried and born up by streeching out and gathering in this membrane, and it is wonderfull to fee them van as if they ran in the Ayr.

Contes are abundant in the Baleares, where they do the Corn and the fields great harm, Solin. They breed every moneth, nor are their young ones blind. They presently take Buck again, so soon as they have bred, though the young ones do fuck, Plin. 1. 10. The female hath not milk presently to soon as the hath brought forth, before the hath been fix hours with the Buck, and they have eaten some Oats, Gesner de quadrup.

CHAP. X. If T is certain, that there are white Stags, and Does that have horns. Apollonius law thom as he passed beyond Paraca a City of the Indies. Philostrat, 13: Sectorius led one about, which he feigued to have received from Diana, that he took counsel with, that to he might keep his Souldiers in obedience, Gellius, Lewis King of France took one, and when Anna of Britanny asked what that was, he faid, That they were all such at first, and that God took them from them for their pride: Their blood hath no fibres; as other creatures have, and therefore it will never grow thick. The Gall is not upon the Liver, but upon the Intestines, or in the Tail. Hence it is so bitter, what alogy will not eat in plin. In their heads they have live Worms; sometimes 20, and they are parted, so great as Maggots in doth. They are fail to breed under the hollow of their tongue, near the Kertebra, where the head joyns to the neck. If you pierce the fault bone in such as are of years, under the eye, you shall see Wasps fly out, bred of the supersidous humour, if you will credit Hunters; and then he can live no longer unlesse he cat a Serpent to renew himfelf. Gesner writes, That in the basis of the heart between the lap of the greater ventricle, and the urinal vein, there is a bone found. He addes, That it is reddish from the heart blood, and melancholick; some adder that from a dry vapour it is turned into a bony if the Rance, " Some adde further, that it is found at no other time, than between their we Featts of the bloffed Vitgin, that is, from the middle of Augustro the Ides of Suprember: The Doc breeds meataho pathwayes for the thinks that their lafe from wild beafts, by reafon of men palling up and down. Aso foon as their delivered, the first care the gleanling honce with the the herb's feli is her modication in bringing forth, wift in histogrammal. They fwim over the Sea like

Ships, the Master Buck leads, the rest follow. They lean their heads one upon the others back; then the first brings up the rear, when he is weary, and would refresh himself. By nature they conquer Serpents. For by strong sucking in their breath, they will draw them out of their holes, and then devoure them. After this Banquet they bathe themselves, and cat Crevish. Then they weep, and their tears are turned to Bezar stones. They die, if they drink be-

Chap.11.

fore they have done this, Gefner.

CHAP. XI. Of the Dog.

Here are many wonderfull things in a Doggihis manner of birth L quick fent, biring, docile nature, fidelity and the like. The pupi pies are borne blind; the more they fuck, the flower they are to fee a but commonly in 7; days, if they fee quickly; but 20, days is the longest time. Some say, if one Whelp be littered, he will see in a day's if two in ten, and so it is if there be more; each addern a day of blindnesse to the time. Lastly, one bred of the fiest litter of a Bitch will see somest. The best of the puppies Is that which sees last, or which is first puppyed. Albertus writes, that he saw a Mastiff that first littered 19, then 18, then 13, at one time. He hath a sent so quick that he will never eate Doggi-flesh, be it never so well seasoned to deceive him. In Scotland there is a kind of them that will perfued theif, and if he passe over a River, they will swim over after him and when they come on the other fide; they will hunt about to find his foot-steps, and still follow him; Gefner. A mad Doggs biting is wonderfull Venemous and deadly. (He runs mad about the Dogg days with the Tooth ach; he is cured if he eate Hellebour with Barley flower, and Vomit it up again) the piffe of a mad Dogg trod upon hurts extreamly those that have an Ulcer, and it is observed that their wounds will increase by treading on it, that were ever bitten by any Dogg. They will cause Hens eggs to grow addle, and Cauel to miscarry. A man had a wound in his Arme , that, after xa yeares that he was bitten, became fore again, and he died in two days. Albert. Fear of water first troubles studi as are bitton, and which is the greater wonder, after 7, years it may show it fall & One shought, that he was cured, being washed with Sea water, yet after longe months by touching of the Dogg-Tree-Wood he fell into a relaple. Gefner. Also in their Utine, Doggs heads are faid to appeare. As for their docilenesse and fidelity, there are many examples. The Dog of Francis, Marquis of Mantua, would call his fervants: They will draw Coaches, carry burdens in Ibissibur a Countrey of Tartary, Lipfim Cent, I. had a Dogg at Lovain that would carry letters to far as Bruffele, ad Belg. Epift. 44. and he would bring latters back from

thence. A Dogge at Brullels would carry money to the Shambles, and fetch joing meat, le tought with other Doggs upon the way, and when he was beaten, he laid hold of a peice. The Dogs.

at Rhodes knew Christians from Barbarians, Gabelin Hiltor.

A certain Mountebank in the time of Justinian the Einperour had a Dogg that would take up many Rings, cast down, and restore evety man his own; he would tell you by pulling them by the cloaths which was a Wife, a Widow, or a Maid. Laftly, in Plutarch, there was one that would represent a Man that was poyloned. We read of the wonderfull fidelity of Dogg in Scaliger his Exercitations, I will fet it down in his own words, and upon his own reputation: A Courtier envying the credit of a certain friend of his, or carried away with fome other malice, came fuddenly upon him, and killed him, and after buried him in a place besides the way. The party slain had ar the same time a Hound with him, who lay a long while upon his Masters grave: Hunger for that time overcoming love, he returns home, and being feen without his Master by some other friends, who thought the dog had been strayed from him, they bade that some meat should be given him. Having let down a few morfels, he returns to the grave; Which course be continued so often, that the friends of the dead began to suspect; and at last believed that the Dog sought for his Maftet: They follow him, and coming to the place where the earth was cast up, dig into it, find the body, take it away, and cause it to be buried in another place. The solemnities ended, the dog keeps with them whom be had led to this discovery. A good while after, the Murtherer comes again to the Court; the Dog knows him, and begins to run at him with great cryes, and so carnefly purfueth his point upon him, that suspition begins to enter into the minds of a great many, that there was some evill in the man. The dog continning still to vex him, the King was at last advertised of the case, who commanded that the man should be straitly examined touching the fact. He affirmeth himself innocent: The dog, when the Murtherer denyed that, he knew what was become of the Dogs Master, never left barking and bawling; infomuch, as all that were present took the same as a disproof, that the dog made against him. Well, the matter proceeded so far, that the King ordered it should be decided by a Combat between the man and the doz. To make short, the dog had the day .: and the Combat is painted and finely fet forth in the Hall of a certain Castle in France; and the work wearing out with age hath formetimes been renewed by Commandement from the King. It descreth (saith the Lord de la Scale) to be set forth in pictures of brasse, that it may never perish.

But to close up this Discourse, we will adde hereunto that which James Micyllus a learned Poer hath written in praise of a Dog, in good

Latin Verses, expressed thus in our Tongue:

Of any Beast, none is more faithfull sound,

Nor yields more passime in house, plain, or woods;

Thap.12. Of the Manmaset, &c. Nor keeps his Masters persons on his goods with greater care, than doth the Dog or Hound. Command: he thee obeyes most readily. Strike him: he whines and falls down at the feet. Call him: he leaves his game and comes to thee with wagging tail, offring his fervice meck. In Summers hear he followes by thy pace: In winters cold, he never leaveth thee: In Mountains wild he by thee close doth trace; In all thy fears and dangers true is be.

Thy friends he loves , and in thy presence lives By day : by night he watcheth faithfully That thou in peace may ! Reep : he never gives Good entertainment to thing enemy.

courfe, hunt, in hills, in Valleys, or in plains; He joyes to run and Bretch out every lim: To please but thee, he spareth for no vains: His burt (for thee) is greatest good to bim. Sometimes he doth prefent thee with a Hare,

Sometimes be bupts the Stag, the Fexathe Boar. Another time he baits the Bull and Bear, ... And all to make thee fport, and for no mone.

If so thou will, a Collar he will wears And when thou lift to take it off again, Unto thy feet he coucheth down most fair, As if thy will were all his good and gain,

In fields abroad he looks unto the flacks. Keeping them fafe from Wolves and other Beafts: And oftensimes be bears away the knocks Of some odde Thief that many a fold infests.

And as he is thy faithfull bodies guards. So is he good within a Fort or Hold Against a quick surprise sto watch and ward 3 And all his hire is bread musty and old: Canst thougher Such a creature hate and Spirn?

Or harre him from Such poor and simple food ? Being fo fit and faithfull for thy turn, As no Reaft elfo can do theo half such good?

CHAP, XII.

of the Marmalet and the Catoblepas:

IN the Country of Prasium, Monkeys are as big as great Dogs. The Leall of one is five cubits long; hair hangs down from their foreheads, and they have long boards, and an inbred tamenelle, Strato 1, 14. There are others wonderful groat; like to men. For by their

Chapita. Of the Crocodile.

legst face, privities; they look like Countrey men, they are alfewhere all-over hairy. They love Children and women; and defire to embrace them, Cardania. The common ones are well known, they have testicles of a blow, and green colour. When they cat up, the ears of Corn, one of them lies perdue in the field, and makes an outcry when he spies a Country man, the rest fly. They so hate a Crocodile, that they cannot endure to fee his skin at a great diffance. Gyllim made tryal of it, and he observed, that they being tyed in chains, yer trembled and foowred, and would have run away through fire of and water to escape. In the borders of Cariai, there is a kind of them, that will leap from bough to bough, as if they flew; they are enemies to Boars; for it will leap furiously upon him, and twine about him. with the tail. Elian 1, 3, faith, That the Catoblepas is like the Bull, and is very terrible to behold, and fletce, and with blood-flot eyes it. looks downwards. It feeds on venomous herbs, and fo foon as it. looks on them with a countenance like a Bull; it fears, and lifts up the Mane; having lifted up this, with open lips it roars terribly, fending fuch a fleam out of the Throat, that the Ayr over the head will be infected and will make others dumb that draw it in, and causeth morral convultions. The Souldiers of Marin found it to be fo; for they supposing it had been a wild sheep; they ran at it with drawn-swords feveral times, but when they were killed by it, they found their errour. This wild beaft was flain afterwards by the Nomades that were horsemen, and they brought it to Marius.

CHAP. XIII.

Of the Baboon and Chamalcon.

Baboon is a Creature with a head like a dog, but in shape like a man, he will fish cunningly; for he will dive all day, and bring forth abundance of fish. He takes wonderfull delight to wear a garment; he hurts no man. He understands what the Indians fay, he will gently feed sheep for their milks sake, Plin.1.7. c.7. Strabo, 1, 15. Two things are most wonderful in him, that in the two equinoctials, 12 times a day he will make water, once every hour, and doth the same at night, Preciof. Johan. in Epift. ad R. P. ... Hence the Egyptians have the picture of a Baloon piffing upon their Dials. The second is, that when the Moon hath been sometimes in conjun-Qion with the Sun, and loseth her light, the male will not look nor feed, but holds down his face to the Earth; nor will the female move her eyes any way, casting withall her sperm forth. Therefore are they held facred, and fed untill this day, that by them the fet time of the Moons conjunction with the Sun may be known by them. Africa breeds Chamaleons, but India more frequently He in faid to have five toes of his feet, which he flands upon opened, but he draws when in when he lies down upon round young branches. He changeth

geth his colour oft-times, both in his eyes, his tail, and his whole body ; and he changeth like that thing he next toucheth, except red and white; when he is dead he is pale, Plin. It is certain, that fometimes he lives by the Ayr. For he will fuffer hunger a whole year, and taking in the Ayr by gaping, and shutting his chaps, the will an Thew forth his great belly. Some faid that he turns to the Suns, and drawes in the Suns beams, and followes them with open mouth, From Zandius we have it, that he will hunt flies : who faith, he diffeeted the rongue of one that was as long as ones hands breadth; hollow, and empty, in the top was a hole with shivel in it, with which he catche his prey, Card. de subtil. Alexander Mynding faith, he fenceth, himself against the hungry Serpent, after this manner . He holdeth a broud and frong falk, and turning himfelf under that like a buckler, he encounters the Serpent. The Serpent, because the Stalkis broader than he can take in his mouth to bite in funder, and the rest of the Chamalcons limbs are too hard for him to do him any harm, he lebours in wains

CHAP. XIV.

of the Crocodile.

He Crocodiles are bred in Egypt, but not all fo dangerous; the I furious ones are towards the Mountains, from Caire to the Sea they are mild; that is because there is scarsity of fish; but here are men that are rewarded to kill them. For whofoever kills a great Crocodile, and brings it into the City, hath ten crowns out of the Treasury. Also when Willis runs back to its channel, the Crocodiles will lye hid in the mud, watching to fatisfic their hunger; and they firike those that come, and strangle them with their tails. They strike so strongly, that one of them brake the four legs of a great beath at one blow, Martyr. They lay one egge as big as a Goole egg, yet from this small beginning they grow to a vast bignesse; sometimes they are more than 18 cubits long. In the time of Pfammeticus 25 cubits; in the time of Amolis 2.6; Plin. They hold their young one legitimate, if he catch up fomething fo foon as he is hatched, Elian. Their tongue flicks all fall, the reason is given by Arifot, 1.2. do part. Anim.c.7. The Trochilm is his guard, and the Tentyritæ are his Enemies. He awakes him when Ichnaumon is like to do him hurt, and entring into his wide Jaws he pulls out flesh from amongst his rows of teeth with his heak; when he flies away; lie is warned to close his upper chap, Plutar. Plin. 8. 25. Bue thefo fwim in the River, and getting upon their backs, as if they rid, they thrust a bough into their mouths, and frighting them with their cry alone; they compell them to vomit up the bodies they had newly devoured, that they may be buried; hence it is that there are none in their Mand, and the very fmell of a man will make them fly sway. How he fights, the history of him will shew. The state of the state of the

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CHAP. XV.

Of the Horse.

IN Portugal they say, the Mares conceive by the wind, Varro, Pling. and Solinus affirm, that the Birth is fruitleffe, for their Coles live nor above 3, yeares. Justinus calls these things Fables. In the Island Hispaniola, the foals conceive in ten months after they are born, and oft times they beare twins, Peter Martyr. A Barren Mare will conceive, faith Aldrovandus, if you bruife a little handfull of Leeks in a Mortar, and power upon it alittle cup of wine, and shall for two days cast in 22. Spanish flies of divers colours into the Matrix with water by a Syringe : the next day have your Horse to the Mare that is lufty ; when he hath leapt her; wall the privities twice. In the Province of Belafcia their hoofs are fo hard, that they are never shod. Amongst the Ambes they are so swift, that they will run a hundred miles in 24 houres. Ludov. Rom. 1, 4. Navig. And Historians relate of such a one that was taken in the Alanick Warr by Prince Probus. In Artois the Governour of the Fort, Mellomus, had one bred, very large, and with Horns: at this day is to be feen the leap he made, which was 60, foot. Lipfius Cent. 3. ad Belg. Epift 56. They live very long; fome have come to 50, yeares, and fome above 60, yeares. Albert Solinus and Niptus fay 70, years. The fame faith, VVe have observed that, in Opus by name, a Mare lasted to breed on, for 40, years. They so fear a Camel that they cannot endure to see him or finell him, wherefore Cyrus when he was to fight against Crass, opposed his Camels against the others Horses, Herodot. Pliny writes that if Horses tread where Wolves have passed, they will be benummed in their legs : and Alian adds, that if they touch the foot step of a Wolfe when they are in a Wagon drawing, they will stop presently as if they were frozen. The Tartars love to eate their flesh, and the rich menhad it rofted in their feafts in Perfia. The Moscovites, of old time Servants to the Tartars, were wont to pay tribute to them in their journeys, by their Duke when they demanded it, of Mares milk. Their sweat, causeth women with Child to suffer abortion, and if Knives hor be wet with it, they are so infected that the part they wound, will bleed till they dye, Albert. They will weep: Cafars Horse wept 3, days before he died. Cardan had a Genner that would weep abundantly, chiefly in Summer. They are fo docile. that Alexanders Bucephalus, nor Cefars Genner, could be ruled by any man, except his Mr. There have been feen in Olandia an Island of the Gothick Sea, that at the found of a Tabret would dance. Scaling writes of one thus, A certain Mountebank led about a little Horfe, which would do any thing at his word, or beck; amble, trot, run, leap, on four or two feet, drink wine, fit on his buttocks, and bring his forefeet to the cup, the would hold a Bason or Dish, with his Legs, as if he were to be barb'd, he would be on the ground at length, and shut his eye lids and nod .: He would life up his head at his Masters beck, turn on his back, and lye to shew how women lay rad From English Swifter States and St

this I faw, faith he, and we also, faith Gaudentius Merula, faw a Horse of a Phylitian of Pannonia, that flood at the dore untied till his Master came forth from visiting the sick, if it were a whole day, &c.

bush ada a see to CHAP. XVI. a tax continue a denda.

but the sale of the Urchin.

Of the Urchin.

Hedge Hogg or land urchin, is a Creature with a Hogs frowt, has hard most stiff bristles on his skin, that a sword can hardly cun them. Kolcherus Coiter, first observed that he rowls himself up like a ball, by gason of a long and broad Muscle over his whole back than, contracts, the skin. He opens, if you poure water on his belly. For because he cannot breath, he opens and cries with a shrill note. Rosener bach in fadice. Abour the time of the Vintage, he goes under the Vines, and hebreaks down clusters of Grapes, and takes them upon his prickles, Plutarch. When he is taken he pifferh on his back, and it corrupts, therefore hee never uleth that mischievous way, but when he is palt hopes, for they hate their imbred Venom, and will not hurs themselves; and will stay till the very last, that they will first be almost taken. CHAP. XVII.

Of the Elephant.

He Elephant is a stranger with us, but the Indians and other I places have them common. The King of the Palibroti had 90000 of them; of the Siamenfes, 12000; and 4000 of them were armed? against sudden occasions. The great King of Mogor had 50000 at command. Vartomannus faw heards of them in Mozambica. In Africa there are plenty. For Appianus Alexandrinus Writes thatthere were 300 stalls for them at Carthage. Many strange things are spoken obthem, and the most part past beleif. Lipsius hath collected them! in his Epistle; we shall briefly reduce all to two; that is to their bod dy and foul. As for the first; it is exceeding great, the greatest of all land creatures, wherefore the Hebrews call him in the plural numer ber Behemoth. It is certain that of old time they carried Castles of armed men into the Field, and an Author nameleffe writes that he faw one of their teeth fold for 36 Ducats, it was 14 spans long, and 45 spans thick: so heavy that he could nortake it up from the ground Aldrovandus. In his heart he hath a bone wonderful bigsthat Aldros vandus writes he faw in one that was killed. Wifforte maintains that he harly three stomacks There were two found that weighted 2/25 pounds Vititamannus. As for its foul, Writers fet down great endowments that E e 2

he hath. Christophorus Acosta, who scarched diligently the East Indies writes things that are incredible of them. It is most certain faith he, that in the Kingdom of Malabar they talk together, and speak with mans voice. There was, faith he, in the City Cochin an Elephant, who carried things to the Haven, and laboured in Seafaring matters : when he was weary the governour of the place did force him to draw a Galley from the Haven which he had begun to draw, into the Sea: the Elephant refuled it, the Governour gave him good words, and at last intreated him to do it for the King of Portugal. Hercupon, (it is hardly credible) the Elephant was moved, and reported thefe two words clearly, Hoo, Hoo, which in the language of Malabar is, I will, I will, and be presently drew the Ship into the Sea. There was another example at Rome; when Tiberius was Emperour, 12, Elephants were brought into the Amphitheatte, in Cloaths that Players ufe. and first thir Commander divided them into several places of the Circuit as they went they went east ly as if they danced, and again when he spoak, they came together and danced in a round, and they Cattered their Howers and Garlands, and according to the mulick, they gently and in order moved their feet, and performed all things as well as the best sword Players. Then they (which is amad nonder) as they were taught, fat down at Table, did eat and drink very modestly as if they had been men ... The beds to sit on were low, ca-Wered with Purple, and embroidered work, the Tables were furnished with divers kinds of provision in abundance, cups of Gold and Silver, great and small; were set upon them, in great dishes were meat, bread, flesh, and fruit. Then came in the Elephants, 6, males, and 6, females, they in Mens Gowns thefe in womens Cloaths. They lay themfelves very decently and reverently on the beds, and fofat at Table. Then, when the Mr. gave the fign, they put forth their (nowts to the Table instead of hands, and take the meat very modelly, and tast of it, no greedine se or revening was observed in them, none feemd to covet the greater or the better part, nor did they catch one before the other when boys that maited on them gave them the cup, and then by meanes of their trunk drank it jouially off, and they did sprinkle the remainder of the wing upon the standers by, and so made a noise as pot companions do. Lipsius, writes this in his own words, and it is the direct opinion of Elian, And they learn all thele things to eagerly, that Plutarch and Pliny fay, that an Elephant that was fomthing dull, and was often beat for not learning well, was found acting his part by Moon light, and fome fay that Elephants will learn to write and read. For Pliny faith plainly from Mucianus, that one of them learned to describe the Greek letters, and did write in the same tongue these words. I my felf writ this, and I offerd the Celtick Spoils. But what we may judge of them may be collected out of Libavius de Intellettu bestiarum. They seem also to hold a sympathy with the Moon, for when the Moon after Conjunction begins to appeare again, they crop boughs from Trees, and hold them up, and looking toward the Moon, they shake them, They may be a by her floore her dicty. But I fay no more.

CHAP. XVIII. in the solution of the Dormoule, and Gulo.

He Dermise sleep all the Winter as round as a ball; when they come to the calm Ayr they will revive between your hands, by a warm breathing, Gefner. They are ftrangely taken in the valley of Pelmig; for the Country men go forth in the night with Torches, and coming hear them, they blind them with the light, and fo take them with their hands. They put Apples on cleft flicks or forks, which the Dormife love to cat the kernels of, fo they can the better take them out : Amongst the Rhetians that speak Italian, they sale up their fleft, because it is sweet and far, and as pleasant as hogs flesh, Ofyer. A Gulo is a creature in the North parts, he feeds on Carrion, till he be full like a drum; then he goes between narrow Trees, and proffes his firesched belly till he unload himself, and then he crams agains, Michov. l. 2, defeript. Sarmat. Luropea. man to the second of the secon

Of the Hymna, and the Porcupine.

He Hyana is a Creature as big as a Wolf, and hath horses hair; but harder, and it goes all over his back, Ariffet, in admirand. He feems to have the genitals of both Sexes 3, but some have onely a long line under their Tail, Ariflot. If you take hold of the right, when he is at his venery, he becomes stupid; but if by the left, it kills him, Gillim in Alian. A Portupine is like a Pig at two moneths old, he hath a head like a Hare, cars like a man, feet like a Bear, a mane that stands up, and the forepart is hollow. Two little bunches of skin grow on both fides of his mouth; long briffles grow out of them. In Summer he lies hid, but comes forth in Winter: and when it is great with young, it is faid to follow the Bear in time, Agricola de subterran. Gifner refers Cardanus Monster to the Porcupine, for he writes thus, l. 10. Subtil. There was a Creature, (faith he) of a strange kind, which this present year 1530, January 19, we saw at Papiar; It was as great as Fox, but the face was fowething longer, and the james were like to a Hares, with long hair, and two very long teeth, for they stuck out as long as a mans singer like to a Squirrils teeth, the eyes were like to Serpents eyes, black, and without corners. There was a cap on its head like a Goats beard, but na otherwise than & Peacocks tuft. The hair was like to a weafels, very fair, onely about the neck it appeared like white wooll; the forefeet were like a Badgers, the ears and hinder feet like to mens, but that the feet had nails like a Bear. On the back and hinder part there were about a hundred thorny quills like a Porcupine, some of them were crooked at the points they fluck forth, but were not moveable, as they fay the Porcupine can shoot hers; when it moved they made a noise by rusting together. The tail was like a Goofes, but the feathers were pointed like thorns. If you find nothing elfer you would fay it were a Goofe. He had feathers white and .: coloured, and a great eye like a Govle. The tone was obscure and boarfe like the barking of a dog. It was an angry creature, yet the Mount tebank could eafily deal with it. It hated dogs extreamly, this mas a young one, and a special did not drink, but eat bread dipt in water, Go. Will Will

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Of the Hcc-Goat.

Goat fometimes runs fo violently at one, that he will run a hole in a board, or a Target: after he is 7 months old; he begins to couple, Elian. His blood is a present remedy for the pains of the stone in the Reins or bladder. For it dissolves stones that are bred, and will let no more grow, cafing the pains also, Actius 1. 11: c. 12. But great Gefner shows how it must be prepared. When the Grapes begin to grow ripe, take a new pot, and pour water into it, and boyl. it untill the pot have been well cleanfed, then take a Hee-goat that is of ripe age, out of the herd, about 4. years old, and kill him, and receive the middlemost blood in the por, leaving that blood that came first forth, and that which comes last; let the middlemost blood? thicken, and as it is in the por, break it into many pieces with a fliated reed, then expose it to the open Ayr, covered with a thick ner, or thin linnen cloath, or a close fieve, that it may be prepared by the Sun, and become dewy; wipe off the dew, and after two of the clock fer it in the Sun, taking care that no rain fall upon it. When it is well dryed, put it up diligently in a box for use; and when the pain abates, give a spoonful of it with Candie wine. This medicament is called Godschand.

CHAP. XXI.

Of the Goat call'd the Evick, and the Indiat Rat, Ichneumon.

He Evicks in the Alps are a kind of wild Goats. They naturally require cold, otherwise they would grow blind. They have huge weighty horns that are reclining toward their backs; and the elder they are, so much the greater. The old horns are with 20 knots grown on them, and then two of them weigh above 16 pounds. There is no rock so steep but they will leap upon it, if they can but find place to fland; some fay they will climb up a steep wall. Hunzers fay, that when they are ready to die they will clamber up a very high rock, and leaning one horn against the rock, they will run round continually, till they have broken it, and fall down dead, Gefuer. Ichness-

Ichneumon is a Creature in Egypt with a long tail, like to a Serpents. Oppian. Without the Chin he hath an excrescence beset with hair; when it is hot he openeth that, his mouth being thut. The Country men of Alexandria sell the young ones in the Market; for they bring them up to catch Mice, which they will do like Cats. He is an Euch my to the Crocodile; for when he observes him sleeping, he rolles . himself in clay, and goes into his mouth, and so into his belly, and... cats his Liver, and then leaps forth again, Gillius in Oppian: but Gefner will not believe it.

CHAP. XXII.

of the Lion.

Here is plenty of Lions in the Province of Gingui, they are fo offensive to the Inhabitants, that they dare not go out of their houses by night, nor come with Ships into the Haven, Gefner. Lions bones have no marrow in them, and are so hard, that they will frike fire, Elian. They have teeth like Sawes. Their neck is made of one diff bone, without any vertebra's: they have five clawes on their forefeet, and but four on the hinder feet; the balls of their eyes are black, Ariftot. They are no gluttons, for they eat but once in two dayes, and drink in like manner; for when they are crop-fick, they will abstain one day; and when they have eaten too much, they will thrust in their clawes down their throats; and pull it out again, Aris flot. When they have filled themselves with the flesh of any creature, they will breathe on the remainder with open mouth; whence it will flink fo, that no Creature will touch it, Elian. They fleep but little, and when they do fleep, their eyes are half open. They bring forth but once in their life, and that but one, faith Herodot. hift. 3. The Whelps littered, fleep 3. dayes; The Males roar, and rouze them, Gellius 1,13.c. 7. They love their young ones exceeding. ly. In Pangeum a Mountain of Thrace, a shee-Bear had killed the Lions Whelps when the Lyons were absent; and she was gon, and clamberd up a Tree. The old Lyons followed, but they could not get up ; fo they could not be revenged. The Shee-Lyon stay'd, and the He went into the Mountains, and found a Shepherd with an Ax, the Lyon favvnd upon him who was foreafraid, and makes him take up his ax : and taking hold of his Cloths, brought him to the Tree: which being cut, the Bear fell down, and they tore her in peices. The Lion is mild to them that yceld. He will scarse hurtthose that lye down, and when he is not hungryhe will feaze on men, rather then women, but not upon Children unlesse he be extream hungry. Avicenna writes that if any inafi throw a stone or darr at the Lyon, and misse him, or hurt him but little he will rather threaten him than kill him : if he do revenge, he will dono more hurt than he received, Crantzius in Saxon 1.8. c. 14. He faith, that formerly in England a Lyon could tell noble blood from, bafe. There are tame ones: For in a plain Country of the Kingdom of

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223

Fez, they will drive them with a staffe, and in another Country of Africa, they gather bones in Villages, Lea African. Laftly those of India are fo gentle, that being used to the place they will be led on hunting, Alian. Marcus Antonius first yoked them, they are frighted with Coach wheels running round, and with the Combs, and Crowing of Cocks, but chiefly by fire, Plin. In Armenia they are killed with the powder of deadly fith, Llian, and some little Worms that are Venemous to Lyons, with the powder whereof they frew flesh for them. Solin. and the section of the - 142144 y - 142.

CHAP. XXIII.

Of the Hare.

"T" He Country of Ithaca is dangerous for Hares, for bring them shither they will dye. But the Baleares is a pleasant place for them: for heretofore they were there in such abundance, that the inhabitants defired Souldiers to affift them against them, from Augustus, Pliny. The young ones are white in the Alps in Winter, Geln. But Paulanias law in Arcadia white ones brought from Lybia. He wakes with his eye lids shur, and sleeps with them unmoved, Xenophon. He sees but ill, for the eys are stretched out, the eye-lids aro cut short, they do not cover the pupills of the eys. Albertus denies that there are of both fexes, but Niptus faith, That which Albertus faid concerning Hares was alwaics a question with me, for in hunting I observed that a Hare had both a yard and testicles, and had young Hares in her belly, also we observed that a Hare had a Matrix, and young ones in it, and did want both pille and testicles. Rondeletius thinks, they are little bladders full of fanies; and indeed fuch do hang down from the beaver, wherein Castoreum is contain'd. They are said to live with dew, they use superpetation, and bring young ones every Month. When they go to their forms, they lay their young ones at least, an acre of ground a funder, lest if danger come, they should be all in hazard. Then they, running about many rounds, at last leap out into their form.

CHAP. XXIV.

Of the Wolf.

IN Sardinia, Candie, Olympus, there are no Wolves. In Seandia if they go too far on the frozen Sea, the cold blinds them, Jervand. In the Mountains of Doffrinium they are white, and go in Troops. They cat Moles, Mice, &cc, Olaus. Their necks are prefled togothers for that they cannor stirre it, to look about, but they must move their whole bodies, Alian. One that is hungry will finell his prey in the

night, though the wind be contrary, for half a mile; Stumpfius. When they have fasted very long, and have filled themselves again, their bellies will hang down, their tongues swell, their mouth is tropped, their ravening is abated, but returns again, when they become lank asthey were, Alian. They devour hair, and bones and all, and void them as they eat them, Stumpf. Vyhen they are to fight in great herdsithey fill their bellies with earth. When they 'are to passe over, Rivers, they joyn tails; loaded with that weight they are not easily thrown down, and the floods can hardly carry them away being joyned together, Alian. When they have choice, they will alwaies spare than; they fight also with hogs, very cunningly. One told me, (faith Albertus) that a woulf was feen to take a great piece of wood. in his mouth of 30 or 40 pound weight, in a Forrest, and did use with that to run over a great (lock of a Tree, then when he thought he was skilfull enough in that exercise, he hid himself, and a wild hog coming thither by reason of Oates that were sowed there, and many hogs young and old with him; he brake forth, and catched the hog, that was about the bigneffe of the block, he lept behind the flock of the Tree and there devoured him. They will not cat Oxen, if you hang his tail at the Cratch, Albert. Horses will tire under the tider, if they follow on the Wolves footing; if they tread on his heel, they will fland fill, Gillius. The skins of sheep flayn by Wolves, will breed lice; but their flesh is the sweet ten Ariffot, Plutarch afcribes this to his breath. His words are, The tleft of a theep that is bitten by a wolf, is made the freeter, because the bitthe of the wolf makes it foft and tender & for the breath of the wolf is fo fiety that be will melt and confume the hardest bone in his stomack. Examples shews that when he is shut in, he will do no harm . For in Italy; one going into a Country-mans house, the Country man ran away; but the Wolf did his Children no hurr, and falling into the same Cave with

Chap.25. Of the Lizzard.

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a Fox and a Woman, he hurt neither, Gefner, months in changes in

Volatieranas writes, That there was a Lizzard 8. cubits long brought to Rome from Ethiopia, by the command of a Cardinal of Liftone, and the mouth of it was so wide, that a Child might be put into it. Lerius c. 10, hist faw one in Brasil, 7. footlong, as thick as a mans arm. If you firike it on the foal, and cut it in two pieces with a twig, neither part will dye, but it parts, and first goes, then joyns together, Elian. The green ones are friends to man, that shay will gaze upon him obliquely, and follow him when he goesithey will lickuphis spicele, and Childrens urine, Erasmus in collog. de amicisios Puttalive into a new earthen veffell, and boyl'd with a fertarges of wing to one Cyathus it is excellent good for one fick of the Pshifteknik he drink of it in the morning talting, contareall. Seven of them duffes Settlick Copers

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cated in half a measure of oyl, and for in the Sun for 3. dayes, will so alter it, that by anointing therewith, it will cure the Role, Goln, A water Lizzard, if he be angry, and as it were puffed up, will stand upright on his feet, and look terribly with open mouth on him that hurt him, and will by degrees fend forth a venomous white fwear, till he become all white, Agricola. When he is old and cannot fee, he lies by a hole in the wall, against the East, and looking toward the Sun rifing he regains his fight, Isidor. To conclude, 'tis a wonder that Alian speaks in his history. There was (saith he) a man that catche a great Lizzard, and with a brazen point he put out the eyes, thereof, then he put it into an Earthen pot full of holes, that it might have breaths het not come forth, he put in alfo deay earth, and an herb, whose name he mentions not: then with an Iron ring, wherein the stone Sogarcs was fet, in which may cut the pillure of a Lizzard he made 9 feals, and every day he blossed out one: Laftly, when he took off the 9th. feal, and opened the pat, I fare the Lizzard, and his fight was restored. The transfer of the first tendence of the transfer of the tran

Of the Lynx, and Lutra or Otter.

He Lynn is faid to see so clearly, that he will pierce through so-lid bodies; yet too great light offends him. Some say, they onely fuck the blood of their prey, and never meddle with the flesh. Erasmus saith, he assaults greater sour-sooted beasts, leaping upon them from Trees, and catching them by the crown with his ratons, ho will tear their heads, and car their brains, not touching the other parts; but he will eat lesser creatures every bit. .. In Summer they are weak, in Autumn frong. They hide their piffe in heaps of fand. as Theophrastus saith, and it growes as hard as a pretious stone. It is · like Amber in colour, and drawes things to it; it cures pains of the Kidneys, and the Kings-Evill. We faw one at Lyons in the repositary of Cl. Dominus Baudartius. Men say, that in Carpathus they burn their claws, and their skins for to be drunk effectually by men in powder, against all obscenenesse, and against too great lust in women, plin. The flesh eaten with the broth cures quartan Agues, and the bones burnt cure Ulcers, Collinus. In the Tower of London there was once a living Creature that Gefner refers to a Lynx 3 It was at waies moving, and would never fland feill, as John Gaius an Englishman writes of but it would stand still at the voice of a Hickemay, Lutra hach a Dogs head, the Beavers ears, a Poxes legs y but thefe are fomewhat thicker, they are more prevalent in Water than on Land. The hinder parts are plain with a membrane to fence them. His Corrage is near the waters, it is made of boughes that it carmer be wer. Sometimes it is fo full of Fish, that they stink. It is so quickfented, that he will finell flish by water that comes furth of a vivulet at some miles distance, and will go to the Fish pends and destroy them.

thehr. In Scandinavia he is for tamb, that he will bring fith our of the water to the Cooks in the Kitchins; but because he is greedy of his prey, and kills too many, he is feldom used.

CHAP. XXVII.

Of the Mouse.

A Mong fithe Allobroges the Mice are white, and the Inhabitants think they live by Snow, Scaliger. In the Island of Cyprus they will gnaw Iron; and in another Island, Gold; therefore they are che in pieces for nicetal, Ariflot. in mirab. Their generation is wonderfull! Iftney do but lick falt, fome think they will conceive with out copulation, Ariflor. A thee Moule great with young, staying some time in a vessel of Millet seed; when the vessel came to be opened, there were found 120 Mice, Plin. In a part of Persia, she Micewere opened that had the mice with young 'ones in their bellies. They first perceive when a House will fall ; Helice is an Example of it; for five dayes before it happened, the Mice and Serpents were seen to go away in Troops, Alian in variis. When they fall into a velfell of water, and can hardly come forth, they lay hold one by the tail of another, and so clamber forth. Elephants cannot endure the finell of them, for they will not feed on any thing that Mice have touched. They will flyc away if one be gelded, or let run away with the skin of his head pull'd off. Avicenna , when they cry they for othew tempelts, they cry either because they perceive the Ayre cold, or because their skin is fine, and they cannot endure to tread on the cold earth, and therefore they leap up, Aratus. Some think they will not be taught, yet Albertus faith in upper Germany, he saw a Mouse hold a Candle at supper time, to give light to those that fate at Pable; when his Mr. commanded him. If a Moule fall into new With and be drown'd, put him into hor affices, and he will recover l'edumel. 12.31. There are many kinds of Mice; Arat is four times as big as a Moule. Agricola faw one taken in the mid'it of Aprill, that was white, with red eyes sticking out; and it was all hairy; and sad a beard with very long haires. Men fay that there are none to be found at Aufpurg about the Temple of St. Hulderlead, which they are luftfull they are furious, forhar if they piffe on any naked part of a Man s it will rot to the bones , nor will the Ulder be cured Albert Aduance. They will hunt fifth; and diving under water they will find forme holes to come to land another way. The field-Mice that breed of putrefaction have one right gut, and no more. APhysitian that distracted one, observed that, Gefner. When Nilus runs back again, little Mite are found imperfect, part of their body being alive from the mixture of earth and water, and part dead earth. In some places they come fo suddedly in abundance, that they will cate up all the Corn, Pliny. The Wood-Mice steep from the ending of Autumne till the Spring be-

gins, Gefnerus. In Normay it is called -Citellus; it dwells in the Caves of the earth. There are found formtimes 40, in one hole, with abundance of small nuts. They cate them fresh, or dried in the Chimney, Agricola. The Cricotus, or Hamester, is referred to Mice: his haire tticks fo fast to his skin, that the skin will sooner come from the flesh, than the hairs from the skin. He will not easily be drawn out of his holes, but by fealding water. The male is falle; for when there is meatenough within, he shuts out the semale. But she revengeth his talfenesse with fraud; for possessing her self of some hole, not far from him, the will gather Corn he knows not of, and live upon that, Agricola. Mice in the Alps are as big as Hares, or elfe betwint a Coney! and a Hare. It will foreshew a tempett with a very shrill voyce like a pipe, and that not only in the Mountains, but when he is kept in the House. He hath three holes in his cave, at one he micrs and comes out again, in another herests and dwells, in the third lie lays his excrements. When Mountains are covered with snow, he hides himself in his Cave, and fluts the holes : he stops in the earth fo fast, and rams it in , that it is easier to dig up the earth on either side, than where it is rammed into the holes.

CHAP XXVIII.

Of the Wesil, and the Sable Wesil.

Eesils carried into Beotia will run away: in a certaine Island they will not be taken out, for if they be, they dye, Albertus. There was a man that affirmed he faw a weefil passing over the River Limagus, constantly leaping; so that he never swam, but leaped upon the sutface of it. It is an Ægyptian Hieroglyphick, for they say it ingenders by the care, and is delivered by the mouth; this emblem Thews the nature of speech. His genitalls are bony; and is a speciall remedy against the stone. Yer, that must not, saith Albertus, be understood as if it were so indeed, but only by proportion that it hath. The Germans call the best fort of them Zobella. This skin is of very great price: for sometimes 2000 Crowns at Constantinople will hardly buy a coat of them. Jovins. But the nature of them is fuch, that laid in the Sun to dry, they will confume more, than if they be worn a whole yeare. This creature whilst it lives, alwaies lurks in a shady grove, and watcheth for Coneys; They are nimble and use their taile for a helme, as squirrils do, and will leap from Tree to Tree.

on the sheep.

Of the Sheep.

Of the Sheep.

Of the Sheep.

Of the Sheep, and the factor it is the thicker it will be a very with the sheep have a very. Dorgad taile'; and the fatter it is, the thicker it will be: Sometails weigh ten pounds, some 20, and it naturally grows fat Johannest Afrik canulaw one above 80 pound weight; found have fren them above 1 50 bound weight. In Africa, Rams are bred with Horns presently. and allo Sheep, as there are fome with Horns in England, Alberton faw a Ram that had 4, great Horns growing on his head and two long ones on his legs, that were like to Goats Horns; yet in Pontus in the Province of Scithia they have no Horns, Ariflot. And they have no galla But in the Illand Naxus they have two, and men fay the Pontic Wormwood is the cause of ir. Plin. In cold Countries when the snow abounds, they lose it, but recover it again in the Spring, Eliani Anno, 1547, one was given to the French King that was very fat in Picardy; one of the claws, namely the inward claw of both feet, was eight inches long, the extream part of it turned upwards, and it had a Horn like to wild Goats, Gefner. In the Country of Prafy, they veeld most sweet milk; for it rayns liquid honey that they feed on, Elian. The milk is very fat in the Ide Erythea, for it hath no whey. and to make cheefe they temper it with abundance of Fountain water. The cause is the plenty of pasture. It grows so fat and full that in 30 days the Sheep will be choked, if it be not let blood, Pliny. About Calimos a Village of India, they finell like fift, for wanting graffe they cate fifth, and they that feed on fifth give them dry, fifth to cate, Arki-When the North wind blows, males are chiefly conceived; when the Southwind, females. For fuch is the force of the North wind, that it will change those that year none but females, and cause them to bring males, Plin. When a noise is made they flock rogether; and if, when it thundereth, one that is with lamb be left alone, the will milfcarry, Arift. In the Orcades Mands they all almost year twins, and of times 3, lambs, Boetius. Though their bodies be very foft, yet they are free of the plague, Columella. One was feen to run mad, which a mad Cow had hit with her Horn. In England they rot in their bowells, if in rainy Summers they feed on moyft ground, and lick the dew. Gefner. In France if they eate the herb, Duva, they breed black Creatures in their Livers, and this disease is incurable. The French in Normandy call that hearb Duva, that is like to the sharp dock, but the leaves are narrovver, and stand alvvaies upright, and the middle nerve is almost red, and serves for Causticks, Gefner. Meadovy vvater drank, breeds Horseleeches, shur up in bladders in the same place; they are a finger and half long, and almost halfe as broad.

CHAP. XXX.

Of the wild Goat call'd Oryx, and the Panther or Leopard.

Liny reckons Oryx amongst wild Goats. When the Moon comes to the East, it looks upon it and cryes; and men fays that for hate thereof, it will digge up the ground with its forefeet, and will let the very balls of the eyes to the ground, and call it up. (Some think it doth the fame when the Sun rifeth; what place foever in the defart it finds water in, it will trouble it by drinking at it, and firs the mud, and throwes dust into it; that it may not be fit to drink; The Panther smells fo sweet, that it will allure all the wild brafts but the frowning countenance it hath, frights them; wherefore he hides his head, and to they come and are caught. In the right flioulder they have a mark, like to the Moon; and as that increaleth, this increaseth, and décreaseth, Albert. It breeds but once in the life-time, if we credit the Author of the Book of naturall things. When the young ones are grown in the Mothers belly they will not tarry, but tear our their passage: the with pain is delivered of them, and so can never after conceive again, the parts being corrupted where the feed should stay. Demetries Physical sprites of it, that one of them lay in the way wairing for a man, and fuddenly appeared to him he was frighted, and began to run away, but the wild beaft came and tumbled before him that was frighted, and was grieved at it. Which also may be understood of a Panther: For the had littered, and her Whelps were fallen into a pit. First therefore he had cause to pity her, and not to be afraid; and next to take care: and he was fecure, as he understood the cause of her grief, and followed her, she gently laying her claws and drawing him by the garments; and he had his life for a reward for taking out her whelps; and the having got her young ones again, went along with him, and guarded him out of the defart, and the was jocant and morry, that it might eafily appear how gratefull fid was, and not to wrong him for his good deeds; which is a rare thing in a Man. They love wine, and when they are drunk they are catcht. The Holy Ghost likeneth Alexander the Great, who founded the Gracian Monarchy, to the Leopard. You shall see the application in Cl. Domino Conrado Grafero, our Master, in his Isagogue of Univerfal History, a Work never can be enough commended.

CHAP.

Chapan, Of the Freeze

CHAP. XXXI.

of the Frog.

Regge couple in the Spring, and lay their spawn in the spring of the lyear following; in the middle of it the frog lieth hid; this Frogsbeing come forth, thew their great heads, Albertin. At Lutavia they catch Bees when they come to drink at the water, it is obfenved, that they will cat a dead mole, Albert. In August their mouth is forthur, that they can neither eat nor drink, nor cry ; and voli can hardly open it with your hand, or with a flick, leb. de nat, rer. Their young ones are destroyed by the leaves of Mullens, or Nut-leaves cast into the water, Alian. If a candle lighted be fet on the bank, they will leave croking, African. in Geopopt. Their spawn is first found in March, wash your hands in it, and it will cure the Itch. Gefner faith it will cure the worms, whereof a fellon is a kind, if you lay it on your fingers. The Egyptian Progs when they light upon a water Snake, will rake a reed in their mouther, and fo they cannot be devouted, Gilling. A Toad burned, will breed again of his own after. But in Dariene a Province of the New World, they breed prefently from the drops that fall from their slaves liands, withich they waver the pavements. Martyr changeth them in Summer line Pleas ho ascribeth it to the sitthy muddy Ayr. If you bear him with a wand, he will first cast forth his venom by his legs, and their he fredare forme drops like milk. Frederick Dake of Saxony gaye one of them to hold till it grew hor; it was first through with a woolden spit, devied in the shade, and wrapt in Sarfier; and this was wis remedy to franch blood. Gefner makes the reason to be, Cold. Boras is a kind of Toad, especially of a brown colour, and in hot Countries is of a cubital magnitude, and formerlines carries its young on its back. In the forehead of this Toad is the ftone found, formetimes it is white. sometimes brown, which is best, if it have a yellow spot in the middie. Some fay it is onely a bone's fome fay it is bred of that bird limy froth, which Toads meeting together in Spring-time do breathe into the forchead of one of the chief of them. defler I a de Dosparis he cannon believe that it is a flone. He that would heat more of Proge fluill and it in the books of Libavius, his Battrachiorum, if he reads them?

CHAP. XXXII.

of Rangifer, and Rhindceros.

Angifer breeds in the North, specially in Normay and Smilland; it is like a Harr, but bigger in body, and exceeding slicing. He hath three ranks of horns on his head, so that in each there are two, and his head seems to be set about with twigs. Of these two are grea-

232

Chap.34. Of the Squirril, &c.

ter than the rest; when they come to pertection, they are five cubics, and have 25 branches in them, Albertus. They are milked, and will go 30 miles a day, Olaus. Rhinoceros is a Beast as big as an Elephant, he hath one horn in his nofe, and from thence he hath his name. It is moderately bent, and fo sharp, that is will pierce stones and Iron, Llian. His skin is very thick with skaly crusts, in colour and sigure like a Tortoisse thell; It is so fast, that a Dart can hardly enter it. He is an Elephants enemy, when he fights with him, he whets his horn on a stone; then putting his horn under the Elephants belly, where it is softest, he rends him. He that will see examples, let him read Camerarius in Subcifivis horis.

CHAP. XXXIII.

Of divers Serpents.

IN the Province of Caraia, under the King of Tartaria, some Ser-I pents are ten yards long, and ten hands broad; some want foreteer, but have clawes in the room of them. Their eyes are as great as two small loaves. They are wonderfull good in Physick. For one, bit by a mad dog, if he drink but a penny weight, prefently he will be suddenly cured; and a woman in labour, if the taste never so little thereof, will be delivered immediately, Paul Venetus. Americus Velpatius faw fome in the Indies that mendid cat. They were as big as Kids, and a yard and half long, their feet were long, armed with strong claws; their skin was of divers colours, and note like a Serpent. From the ears to the end of the tail, a certain briffle went quite through the back, that you would think they were Serpents indeed. Calecut breeds the like fo great as Boars, and fometimes with greater heads, four feet, no venom, yet they bite dangerously, Ludovic. Rom. in Navig. In Hispaniola, called Hivana, of the west-Indies, there are some like to these. Their back is with pricks, their heads crested, they are mute, with four feet, a Lizzards tail, very tharp teeth, they are bigger than Conies, they live indifferently in Trees, Land, or Water, and will fuffer hunger many dayes. Anno 1543, there appeared four-footed beafts in the borders of Germany near to Styria, they were like Lizzards, and had wings, their biting was incurable. Anno 1551, about St. Margarets day in Hungary near Zischa, about the River Theifa, they were found in the bodies of many: They killed about 3000 men. Some came out of mens mouthes, but they went in again. It is almost incredible what is reported of those places: That multitudes of them were found in piles or handfuls of wheat: and when the Country men thought to burn them, there came a great many more forth, and charged them with mans voice to forbear, faying, that they were not bred naturally, but fent by God to punish men for their fins.

CHAP. XXXIV.

STOOGLESS FOR VERY

of the Squirril, and Ape-fox.

He Squirrils have but one blind gut, as great as a flomack, and in diffection it is alwayes found Iwoln with excrements, Vefallus. They are faid to have a bony generative part. They forefee a tempelt, and opening their holeson the contrary fide, they shut those places where the winds will blow, Albert. When it would passe over the water for to find food, he takes the batk of a Tree that is very light, and fets it on the water, fitting in it, and flears it with his Tail lifted up, and so the wind carries him over, Autor. lib. de natur. The Ape-fox is a Creature in Pariana, a Country of the Indies: Before, he is like a Fox; behind, an Ape: he hath mans feet, and Owls ears: under his common belly he hath another belly like a Wallet; the keeps her young in this, and it comes not forth but to fuck, Gillius. Peter Martyr Decall. 1. 1.9. faith, he saw one dead, amongst fuch vaste Trees, that 16, men together could not fathom round.

CHAP. XXXV.

of the Apc.

Here are in some Countries Apes in abundance. Posidonius saw a wood full of them in the borders of Lybia. In a word, Alexander saw Mountains full of them in the Indies. He thought when the espyed them by chance, standing upright, that an Army was ready to besiege him, Allan, Amongst the Troglodites they have Manes like Lions, and the greatest are as tall as weathers, Scalig. in Exercit. In the Indies Mediterranean, they are huge bodies, and they follow civill Merchandise without any offence. Galen thought them the likest to Mankind, amongst all creatures, for their Bowels, Muscles, Arteries, and Nerves. But Vefalius faith, they are the most unlike in the Muscles of the Thorax, that move the arm, cubit and thigh, and those that move the shoulders and toes; and lattly, for the inward structure of the hand. A Male was feen, whose heart had two points, Albert. Scaliger faw many without tails, as great as a boy of eight years old, and a male and female with their young. If the young defire any thing, the thee is admonished by the hee clinching his fill, and he will correct her with a fieree look, as being guilty of ill-using. fier young ones, Matianus faith, that those which have fuch tails, are fad when the Moon is decaying, and they rejoyce and adore the new Moon. He addes, That fome were feen to play at Cheffe, for they will imitate a man unluckily; for an Ape faw h Midwife wash the Child, and bind him up in swathebands, and lay him in tho cradles

Cradle, when he spide that the Child was alone; he went in at the window that was open, and took up the Child and unswathed it, and washed it with scalding water till he kill'd it, Elian. He is very much afraid of a snail. Erasmus faith, At Rome we had an example of this. A man put a fnail on his Childs head, and covered it with a Cap. Then he brought him to the Ape, who was glad and leaped on the boys shoulder to. look lice, taking of his Cap he faw the Snail; it was strange to fee how he was frighted and leapt back, and how fearfully he looked backward to fee if the fnail followed him. Another example, we tied a final to one end of the cord that the Ape was tied with, that he could not get away, but he must look upon it e tis wonderfull how he was frighted; only he did not de for feare; formitines he strove to drive away the beast that stuck fast with his hinder feet at last he villed and thit all he had in his belly 3 and of this fright he fell into a feaver , what we were forced to let him loofe, and to give him wine mingled with Water to refresh him.

CHAP. XXXVI.

Of Su and Subus.

KYU in Patagonia, is a most monstrous beast, she takes her Whelps Don her back, and covers them with her tail, when the hunter follows, and so she escapes. Wherefore she is caught in a pit, covered with leaves: when she is taken, she kills her young ones for madnesse, and cryes out so horridly that she frights the Hunters, Thevet. in defeript. America. Subm is an Amphibion, with two Horns; he follows shoals of fish swimming in the Sca: Lobsters, Pagri, and Oculata, are fishes that love him; but he cares for none of their love, but makes them all his prey.

CHAP. XXXVII.

He som. It is a creature we know, but it will not live in Arabia, pliny. Brought into Hifpaniola, it grows as great as a Mule, Wartyr. In Athlopla it hath Horns. In England and Sclavonie, they have none. In Macedonia they are mute, Alian. A Soms brain is fat: when the Moon decrealerh, itabateth; the cares are full of a humour like gall. When the looks upward, the is filent; for looking commonly down ward, when the looks upwards, the light dants her, and her sharp arrery being Araightned holds in her voyce. Aphrodif. Somtimes, the will grow fo fat; that it is miraculous. There were two ribs of a Hogg fent to L. Volumnius being in Spain, they weighed 23, pound; and from the bone to the skin was a foot and 3, fingers, Pliny. And Crescentiensis saith,

that the whole hog weighed 570 pound. There was one feen in Arcadia, that the Mice and Ratshad eaten into it, and bred there: The same happened at Basil, Gesner. For some Creatures have fat that is insensible: and we read in Pliny, that the far was taken away from the Son of L. Apronius the Conful, and his body was made lighter, of a burden one man could nor carry. As concerning venery, son's breed often that are homebred; but wild sows but feldom: For they have plenty of mear, and do not labour much & thele must, seek, for it, and wandring over the Mountains, endure trouble, Plutarch. Both of them are so wearled with copulation, that they fall afleep, and will grunt and grow so mad, that they will rend those that come near unto them, Arifforle. They will miscarry. They are friends with the Crocodile, and will come to the banks of Wiles withour offence, Calcagn. They mightily hate fome kind of Barley in Thrace, for they do not onely forbear to cat it, but they refule all excrements that proceed from it, Ariftot, in admirand. The Meafils is a common difease amongst them, and there is scarce any Hogg that hath not three kernels. The Druldes make mention of a famous remedy, an herb that growes in moyst grounds; but because they command us to gather it with the left hand, and that he that gathers it must not look back, and thust lay it no where but in their trough that they drink, having first bruised it, it is superstitious boyld the light of its at the conjugate to the state of the O fields at the conjugate to th

CHAP. XXXVIII.

Of the Mole.

Here is great store of Moles, in Baotia in the Country Orchomenia, Arift. In Lebadia that is near unto it, there are none; and brought from other places, they will flot earth. Aristoteles faith, they want eyes; but Gefner faith, their eyes are plain, and putting forth, without the skin like black spots, as great as Miller seed, and fathred to their nerves. Also a Learned manin defner faith, That he found young ones in one that he diffected, with great heads, and they had eyes. They delight in Toads; and Albertus tellifieth it by his own example: but he also knew Frogs and Toads to cat a dead Mole, Johan, averlin. Conful Gedanenfis was cured of a fiftula in the corner Johan, Evertin, Conjul Gedanenjis was cured of a hitula in the corner of his eye, by the powder of a Mole that was burnt, and given him in powder to drink.

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CHAP. XXXIX.

Of Tatus and the Tyger.

Aius is a four-footed Creature that is a stranger to us. It hath a thick covering, and a Icaly shell, so that his flesh may be easily. taken forth of it. I first fan this Creature at St. Andrews in Scotland (it is an Archiepiscopall City, and there is a famous University in it) in the place, for varities of the most noble and most courteous Gentleman John Arnet, Protonotary for the Office of the Commi Bary in the Archbilhovrick of St. Andrews, at whose house I lodged. But because it drawes it felf into its fliell, it is thought to be a kind of Brasilian Urchin. It is like to that which in new Spain is called Avitochli: it is as big as a Cat, having a bill like a Duck, feet like a Hedge-hog, a long neck; and men report, that it grunts like a Sow. I have little to fay of the Typer, unlesse I should set down the history of Peter Martyr, of one in Dariene, an Island of the new World. It did so afflict the whole Island with killing people, that no man could go safe out of his house, afterwards it fell into a Pir thar was dug, and Ruck upon tharp stakes that were fastned in the bottom, and was yet so strong, that it would break Spears cast upon it, into a thousand pieces , but in the end it was killed with stones. Ledesma a Spaniard faith, they boyl'd the flesh of it, and he ear part thereof, and it was as good as Ox-slesh: It is a Creature so swift, that Oppianus compares it to the West wind. しょけんど とくばつ

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Profes in Taprobana are logreat, that one of them will weigh 300 pound, scalig. Pliny faith, that fome are logreat, that men may dwell under them. And between the Illands, especially of the red Sea, they towe in them for Boats. The Sea-Tortolles have no tongue, nor recth, they break all things with the edge of their foows. In Hilpaniola at what time they are given to venery, they come forth of the Sea, Sand being cast into a deep pit, the lays 3; or 400 eggs there; when the hath laid all, the covers her eggs with land, and returns to the Sea, taking no more care for her young ones. 'At the time appointed they come forth, as out of an Ant-hill, in great multitudes; onely by hear of the Sun, without help of the old ones, Martyr. The eggs are as big as Goofe egs. When the head of one is cut offs, it doth not die presently, bursees, and will shur its eyes, if you put your hands before them; and if you put them near, it will bite them, Alian. Bellonius faw a kind of Tortle brought out of Turky,

that the Ancients knew not of ... The Mell of It is thin and Tradioa: rent, like to the colour of a Chrysolite. The Turks make that's for knives of them, they are so pretious, that they adorn them with sluds of gold. There is an Island in the Sea found by Jambolus toward the South, that brings forth little! Creatures I that are of admirable vertue for their blood and nature. Their bodies are round and like to Tortles, with two overthwart lines cutting one the other in the middle; in the end of each of them there is an ear and an eye, fo that they fee will formeyes, and hear with as many ears, It hath but and belly without any gut, and what it cars runs into that nor They have many feet round about; and walk both wayes. The blood Is laid id be 8f wonderfull vertule. Por every body that is wounded will grow to-

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Ment factlight bush of Anabar they devour then is the with a think a breath that will corrupt the field of the minter waller they come Heaters they will eate of negate out of their morney; and eater be blinds dogs and meny written in meral! Sometales they Helvery great, five cubits long. There was one belong med and him that was as great as a large Ox, Vadianus. His hexavis foweak, that h found blow will strike him dead, pliny. He cats his water when he drinks, and having tasted of the Apples of Mandragora, he recovers by licking aran Ant-hill. Sile is fall to bring forth a young one bigger than a Rat, but lesse than a Cat, that is both naked and unformed in its parts, Gillius: and pling and de anaffe. But one that was cut forth in Polonia was fent to Gefner, it was above ones finger long, and as ellick as one's thumby the body had joynes, extent the Winder Lec, THE PARTY WHEN HE IS FART HE Creeps into his deli troop Will Back and To rakby away his foothers; that the buncer alay not reredice them? In this den the will grow lead that blayes to and he will keed Minitelf Alive, thing uill and theking pieright foot at deposit Whill He her they, he comes forth and feeds on Cyckow pint, we mah. They there Tono flew of mear lefts but onely a Mille mountartin his belly? Hill forme finall drops of blood about his fleate. Thispin-line cubileth that, tinring that time; the field-was digented; and tile Beal : ब्राह्म मिट्टिन by it. The Males love women. "Among to the was Tehnethaticalight a Maid and carried Het in Hit dens all who che het Vendebully, and fed her with Apples growing in the Woolds. Buil with the Prince of Lithiania hath tryed it, that they will be the thine, .. Poule breath a shee Bear, which he was wohen teen by hand, and the was wone to run into the votally and rome home

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again, and would come home into the Prince his bed-Chamber, Velater, lago was a war and a special second and or mind amount There was planted and the boundary of a continue there is a second of the second of th

CHAP. SXLII. CALL CALLES AND CHAP.

Of the Fox.

N Caspia there is such abundance of Foxes, that they will go Linio Country houses, and come into Cities, Elian: and will be fo tame, that they will fawn like dogs. They are very frong, in Sardinia, for they will kill the fiercest Rams, and young Calves, Munster. They are white in Muscory; in Arabia they are of an illfavoured hair, and exceeding bold. At night they rowze one the other by barking, and feeking for their prey, they will fnatch away mens very shooes, Scalig. When they are to passe over frozen Rivers in Thracia, they will lay their ears to the Ice, and so judge whether it be thick enough, Plin. When they fee a flock of birds flying, they will roll themselves in red clay, that they may appear like blood and they counterfeit themselves dead; but when the birds come to se upon them, they catch them, and cat them, Herus. When they ate troubled with fleas, they will take some fost straw, and dip their hinder patts into the water 1 the Fleas when they feel the cold water, will creep up toward their heads, and then they put their heads under water, and the Fleas will leap into the straw, the Foxes let go the fraw, and run away. CHAP. XLIII

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A Uthors ore of divers opinions concerning the Unicorn. They doubt whether there be fuch a creature some affirm it and some deny it. Garzias, ab, Horte. Physitian to the Kings Deputy in India, observed a creature like to the description of an Unicorn. It had a wonderfull Horne, that he would turn somtimes on one side, somtimes on the other, and fomtimes he would life it up, and fomtimes ler it down. Ludovicy Vartomannus faith, that he faw two of them fent to the Sultan at Macha out of Athiopia, to Mahomets Tomb, they were shurup in Lattises, and were not sierce. The Horns of this creatures are show'd in many places; At the Monastery of St. Dengs there is a whole one in a dark vault of the Sanctuary, and the end of it stands in water. The water is given to drink to those that gounder that hollow arch; fo foon as they have drank that, they fuddenly fall into a great sweat. There is one also seen at Venice, in St. Marks Church, and another at Rome covered with a Purple covering drovandus, writes that there was a lew at Venice that boasted he had a

true one, and proved it by a wonderfull example; for he laid a Scorpion and Spider on a Table, and compassed the place in with the" Unicorns Horn, these creatures were not able to passe out a but were killed either by the shade or the vertue of it. Cardanus describes it, That it is a rare creature as big as a horse, with hair like a weasil, a head like a Stag, that hath one Horn growing on it, 3 Cubits long; it stands in the middle of the forehead, and is right und strait, it is broad at the bottom; it hath a short neck, a thin mane, lying but on one fide with fmall feet like a Goat, &c: Pliny faith, that it is a moft rough creature's and the rest of the body is like to a horse, the head like a Stags, sliefeetlike an Elephants, the taile like a Bores, with one black Horn; Ricking out of the middle of the forehead two cubits length; what ever it be here is cause enough to doubt of it. For first there are many kinds of Unicorns described, and we know not whether they be of the fame kind. In India there be Oxen that have their hoofs undivided, and they have but one Horn if we credit Tliny, There are Bulls in Abnia if we beloive Alian and Oppianus. There were some in the Wood Hercynia, if Cafar be to be believed. Ludovicut Barthema faith, that he faw in Zeilam a City of Ethiopia, a kind of Cows that' had but one Horn in their forefread, that was but a hand breadth long? and turned backwards. As for the Horns, there is much forhild flication in them. There was one found upon the shore of the River Arala, in Helvetia, nere to Bruga; who shall certainly make choice of these for the Unicorns Horn. That which Albertus saw was a hand breadth and a half thick, ten foot long, without any spiral lines, and like to a Stags Horn? And a Horn to thick and long, feems to appertain to a living creature as great as a great Ship. Aldroyandus thinks that the cup which Alvarez Mendofa gave to the great Duke of Hetruria, which he had from the King of Narfinga, was rather made of one of those creatures Horns which are seen in Basma and Macinum, Countries of Tartary, that are as big as Elephants. The Diameter of that cup was as much as both hands could hardly compasse. He that would read more of the Unicorn, let him read Andreas Marinus, And dreas Backius, and Casparus Bartholinus. I for a conclusion will add fomthing, omlitted concerning the Mule. The common opinion is that the Mule is barren, and if they do bring forth, it is held for a monstrous thing. Yet in some Countries of Africathey are ordinarily with young and do bring them forth, Varro. It appears by the Monuments of the Athenians that one lived 80, yeares. And they took pleasure in it, when they built a Temple in the Fort, that this old Mule would encourage their Cattel that fell down, with accompaning them, and labouring with them, wherefore they made a dealer cree, that no men that cleanfed Corne should drive the Mule from their fleves, plin. Some write they will not kick if they drink Wine. They have an excellent smell. Hence those Mules that are out of the way will return into the way when they fmell it, and they cally are infected with the contagious force of the Ayre, and fall lick of the त रामग्री प्रशासिक । से अस्ति कार्य, अस्ति कार्य के अस्ति । अस्ति । अस्ति । १३६४ के Plagacket

Of the Unicorn.

Chap. r.

Plague, Aldrovandus, 1.4. de Quadrup. There is something in them that is death to Mice; for the sume of the hoose of a Mule will drive them from the house. Columella saith, That the pain of their gues is abated by the sight of swimming Ducks. Cardinal Ponzetus bids us to inclose one that is infected with the Plague, into the belly of a Mule newly slain; and Marantha de simplicibus saith, he must be shut in so long, untill all the hear of the Mule be vanished; and this must be done oft times.

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The Eighth Classis.

Wherein are contained the Wonders of Creatures that want blood.

Plin. Histor. Natural. 1. ir. c. 2.

He Nature of things, is no where more totally in any Creature, than in the smallest Creatures: And, In the contemplation of it nothing can seem superfluous.

CHAP. I.

Of Living Creatures without blood; in generall.

Ruly the nature of bloodlesse Creatures seems to be contemptible; and not to be compared in the least, with the shoulders of Elephants that carry Castles, or the necks of Bulls, and their sietce casting up of shings into the Ayr; not to the Manes of Lions: yet is there no where a more remarkable piece of Nature's Workmanship; and Nature is no where total, more than in the least Creatures. For in great bodies there was a sit place to work in the matter being slussile; but in these that are so small; and almost as nothing, what reason, what force, what unspeakable perfection is there where hath Nature placed so many senses in the Gnat? Where hath she set

her eyes 3 where her smelling 3 - where hath she made that horrid and great Voyce, considering its proportion of body's how hath the cunnityly fallned the wings ? lengthned the legs? bath disposed a hollow place instead of a belly! and made it thirfly after blood, especially mans blood & but by what art hath the sphessed the front of it to make it penetrate into the skin ? And fince the smallnesse of it cannot be discerned, in comparison with that is very great, nature hath helped it by a twofold art, that it might be sharp to peirce, and hollow to drink with all. Plin. l. 1x. c. 2. Ariftotle reckons 4, kinds of bloodleffe creatures; The foft, the hard crufty, the shell-wearing, and the insect. The soft kinds want scales, and their skin is not rough; nor with a fnell, bur foft as it is in Men. They, have no bones, no bowels. If there be any, they are like to fifthes prickles, except only the Polypus. Plin.l. 9.c. 28. Their heads are between their legs, and their bellies, they have no tongues, "nature only hath given them fomthing that is fleshy, to discern the pleasure of that they care. But they have a Brain, and they have that is proportionable to that part which is designed by nature for the principality of feeling. Alfothey are of both fexes. The parts of the males are all more rough, and distinguished with various lines running between, the tayl is sharper, the passage under the throat, comes from the brain to the bottom of the pipe; and the place it is carried to, is like to the teats. It is double that is fet above in the females, and reddish little bodies are joyned to it in both sexes. They resule sale water, they can hardly endure cold, for they are naked, and fearfull because they want blood. Their eggs when they are lay'd increase as Worms do, but they must needs have their vital force from the feed of the male, as fishes have. Aristot. de generat. 1.3.c. 8. Of those that are crufty there are two kinds, for they are all either with tails or round. Their taile is evident and firetched forth : the cover of this, as it were, covers the end of their belly, and is so joyned to the lower part of their belly that it shews not at all like a taile; Scalig, exercit. 245. Their parts are as the other parts of bloodlesse creatures. Their teeth in their mouths are long and round, covered with a double covering, Aristot. de part 4, c. 3. between which such things are placed, as are knir between the teeth of Locusts. They want cylids, but their eyes are placed above their mouth, they are hard, and apt to move inward and outward, and obliquely. They breathe not, but casting water through a hollow pipe they are refreshed. The males have small passages for their genital parts, the females have mambra, nous matrices cut as farr as their intestins, and in them an egge is bred. They copulate after the manner of those creatures that pille backwards. The female brings fortha red egge covered over with a thin shelly membrane; they are otherwise called Conchylia, purple, shell sish, that were of old held for great dainties, that they grew into a proverb, to be the widows delights. Nature hath lo sported in the variety of them, in so many figures and colours, that it is hard to number them. Plin, 1.9. 6.33. to explain the variety of them faith thus; They are of fo many figures , plain, hollow , long like the half

Moon, round cut in half circles, riling in the back, smooth, rugged, dented, freaked, the top wreathed like the Murex, the borders pointed, outward; or folded inward, somtimes distinguished with little lines, hairy, curled, like doggs waved like a comb, a tyle, lattice wife, or. like net work, stretched out obliquely or right forth, close thickned together a opends when men clap their hands, bended backwards like to a Horn. Morcover. in the red Sea they are of a wonderfull greatnesse, also they are found on the tops of the highest Mountains, and they somtimes lye hid in the inward parts of the earth or in stones, Goropius. Becanus in Aldravandus faith, he hath feen some in a flint, that we use to vave the freets with brought from Bethum: there were fo many fell-fift all offione, and fout up entire in their coverings, that you would judge that flint to have been framed with great care and art of them, joyned with fome cement. In the fields about the suburbs of Paris, that are fruitfull with Corn above, there is undernouth a Cave that is under great part of it, where Chariots may passe. I found there a great many |bells , like Sea perwinkles , in a delicate order , both twifted and adorned with little knots, and so exact, that there was nothing wanting to their perfection but the living fish. I saw in England a stone cut out of the highest Mountains; that was like a living perch; not the least line was wanting to make it perfett. Infetts have incifions either above or beneath, or elfe on both fides, and though it be bony or fleshy, yet they have something that is between both. The differences of them are many if you note their place the quality of their body, their quantity, their food, their generation, their motion of their going. As for the place, (we must speak somthing) reddish hairy Worms are bred in Snow; in the fire, Worms called Pyrausta; in the Sea water, the infect call'd Micro-rinchoteros, or little nofe the Sea-Scotopendra, and the guar. In fresh water there arifeth, Leeches, Scrophula, Struma, Cherodes; in the carch, Worins, and Juli; in minerals, not a few. In the flumps of Trees, Coffi, and Teredines. The Fig-Tree breeds the Worm Cerastes; if an Olive, Tree be planted where an Oke is digged up, there breed Frogs, and little Worms, in the Service-Tree there are breed red hairy ones; in the bladders of Elms, Pseunes; in Vines, those that Tully calls Butyri; in the Spindle-Tree, or as Theophrastus calls it, Tetragonia, there is yearly bred some Catterpillers that dye fo foon as the leaves are wasted. In the apple of a certain thrub call'd Coccios there breaks forth a little living creas ture fo foon as the fruit is ripe. There are Worms found in the gnats. that tied to the neck will retain the birth, they must be raken off before delivery can be. In the leaves of Night-shade there is a Worm that is of a green and yellow colour, that hath a Horn in the forehead, as long as ones finger. In the Afphodil Worms breed, that become flies, in the fashion of flowers, for when the stalk fades and withers they cat the cover they are in and fly out a you shall find no fewer infects observable in living creatures. Mans excrements are known fufficiently, especially when the Sun shines on the excrements of beggerly people. We know that in Agypt Worms are profently bred in Mens legs. In a Carp the first year a black Worm is bred neer his gills, River perches breed as it were 12 pearls, lo great as tares,

and each of them hath in it a flender long round worm. Laftly, it is faid, that in Bee-hives a worm is bred. As for the parts, Flies have open wings, Beetles have theath wings; some have their belly joyn'd notheir mouth, and the right Intestin revolved from that. Those that leap, have either their hinder legs longer, or elfe they leanupon their tails bended backwards. As for their generation, some are bred from animals of the same kind; some do generate, but not of their sown kind, but only Worms, and those not from living creatures, but from purrefaction of moysture and drynesse. Amongst those that couple, the females are commonly the biggeft, the males have no feminal passages; nor do they thrust in their member into the females. but the fomales into them by the lower part.

This I have spoken more largely of bloodlesse creatures, because I know that their external habit hath made them contemptible. Wherefore the mind of man ought to be rouzed up contemplate their worth, by the majelty of the internal nature of them, and to verse it felf therein.

CHAP. II.

Concerning Bees.

N Lithuania and Podolia there is an infinite company of Bees, that the hollow parts of the earth that are dry, are filled with honey: Olam Asagnin faith, That great Bears have fallen in and been drown'd. The fruitfulnesse of the sields causeth the plenty of them, the sweet smells, the abundance of flowers, the pleasant tafte of them.

Adde to this the mighty Woods of Pine-Trees, which are alwaies green, and keep the place warm, with high tops, and large boughs; in Summer they shade the Bees, and in Winter they hide themselves in the coverings of the Pines, Leo. Nolin. in Problem. Solimu faith, That Scotland breeds none; but I know that is false : for I faw some in my Host's Garden at St. Andrews; and sometimes I have been much delighted with them. In Africa they are rare. If you ask the cause, you shall find it is the want of those things that I spake of in Sazmatia. In some parts of Egypt, if you bury a Bull to his lidens, Bees in time will breed from it, from its butrefaction. If therefore you would breed Beer lo, read Plorentinus. He bids you, as Cafar Conffanginu relates, make you a house ten cubits high, and ten cubits broad, and the other fides equal thereunto; lerthere be bur one place of entring, and four windows, on each fide one; drive an Ox that is fleshy and 30 moneths old into this place, he must be very far; cause many young men to fland round about him, and beat him forely, and kill him with Clubs, breaking his very horns and bones; yet they must take great heed that no blood follow. For the Bees are not bred of blood; and when they firske him first, let nor then run violently up-

on him; Then presently stop all passages in the Ox, with clean pure napkins; dipr in pitch, as the mouth, the nothvills, the eyes, and all parts Nature hath made for Evacuation. Then laying a great deal of Thyme under, and the Ox upon it, fet them come forth of the house, and presently shurthe door and the windows, and daub them with Lime, that neither Ayr nor wind may enter br'come forth; bur the third week you must fer the house wide open, and let in the light and the cold Ayr, unleffe it be on that fide where the wind blowes" very firing. For if it fall to out, you must stop that side the wind blowes Arongly on, and daub it with clay. The eleventh day after, when you open it, you shall find Bees hanging abundality in clusters together; and of the Ox that is left you find! find florling Bur his horns, his bones, and his hair. They fay the Kings are bred of his brilin, the common Bees of his flelli; Alfo the King is bred of the Poinall marrow; but it is faid, that those which breed of the brain, are the belt, for strength beauty and magnitude. From hence you hall know the first change and transformation of flesh into living Creatures and as it were a conception, and generation, thus: For opening the place, fmall white creatures, like to one another, and not yet perfect, nor yet living, will appear in great numbers about the Ox, all immoveable, but augmenting by degrees. You shall fee also the excrescence of their wings, yet unjoyned; and you shall see Bees in their proper colour, gathering together and flying about the King, but with small fhort wings, trembling for want of pling to fly, and the weaknesse of their limbs. They will come continually, flying violently against the windows, for the defire of light. But it is best to open and Thut the windows every other day, as we faid. For it is to be feared, that they will change the nature of Bees, or else be fiffled for want of Ayr. If a wing of them, or the fting be pull'd off, it can never grow again; for because this is fastned to the Intestine, it pulls that out allo, and for hey die. They have a King, who is formiel honoured by them, that he never goes forth, but they all attend him ; if he lire in flying, they are quick-fented to find him out; and when he cannot fly, they carry him, Arifforle. They are to chafte, that they will fling thole that friell of copulation, and they stall themselves in Virginis Sepulchres, Plutarch. For Augustinus, whose striname was dallin, faith, That at Verona they exept into the Sepulchie of two fifters that Were Virgins, they were the Daughters of that famous Lawyer, Bartholdmeus Kitalis, they went in by the chinks of the wall next an Orchard, they made abundance of combs in the dead bodies of them both! The matter two years after their burial was made manifelt, by the fall of thunder, without any hurt to the carcales of the Bees and combine There were fonie found also in the Tomb of Hippocrates, and it is cons. stantly avouched, that the honey of them anothed on little blitters of Childrens mouths by the Sepulchie, did miraculously cure men! The Inhabitants of the Country of cuma do feed on them. I If thou woulds liave thy heard grow quickly, anothe thy chili with the whies of burnt Bees, and Mice dung, Aldrovanding.

CHAP. III. (1970)

of Spiders.

IN the new world, as Oviedus, l. 15, c. 3, relates, there are green Spi-I ders, and the Web is of a Golden colour, as good as filk. In Cuma they weave it so strong that it will not break, but holds like silk. In Hilpaniol, they are as big as hand-balls, and as hard as nuts. In Brafil there is a very great kind of them, like to a Crab, yet a fly takes him and draws him into his hold, contrary to what is used in Europe. Cardan, 1.9. fubtil. faith, that in the west-Indies they are as big as Sparrows. Some write they couple backwards, and do featter eggs in their Webs, for they leap and so lay them. They are perfected in 28, days. Scaliger, l. 1. de, causis plant, saith, that they breed of filth. when I somtime observed Spiders egs , I found them to be, many small ones , black and blew with little spots, divided and parted one from the other; they are foft, and clammy, and if by chance any be loft, the Spider diligently enquires, and the carries them back by fastning them on some thing from within, and with her beck also. I have seen also innumerable young ones come forth of one egg, so small that they could hardly be discerned; yet so soon as they were come forth of the egg, they spun such sine webs that nothing can be more wonderfull. Also I have observed under the belly of a Spider that was taken, a mighty heap of eggs, so small as Atoms; they were white, and crushed with the singer, they gave a crack. They have a great faculty of feeling: for fitting in the middle of their Web, they feel a fly that toucheth it in the most remote part. Hence Antonius Ludovicus. 1. 1. Problem. f. 5. Problem 13. faith, that for that cause they lye in the middle of their Nets. And being that the lines are equall from the Centre, the firting in the middle, and holding with her feet the beginnings of the threds the foun, the can eafily know from all parts. They make very fine nets, and in them gnats and other little weak creatures are infnared. This is made from fomithing they have without them, or from their hard skin, which being by degrees kembed and drawn like to a thred, they diminish, and they cat up their threds; or else naturally they have a fruitfullnesse of drawing threds; or else at a set time, the nature of their belly is corrupted, like an excrement. The woof is fastned within, and from that those fine lengths are drawn forth: we see the first to happen in Silk Worms, for they draw silken threds out of their own excrements, and they change their lives for a filken cafe, their proper substance being turn'd into a Fleece, Antoniem Ludovicus, l. 1. s. problem. 52. And Franciscus Bonzella Cardinal. 1. 3. c. 14. de Venenis writes, that such as are bitten by a house Spider, fall ill of a Priapisme. And Plin. 1. 24. c. 9. faith that the same things happen when one is bitt by the Spider Phalangium. The nature of the poylon is said to be the cause of it. For though it penetrate eafily; yet the terrestiall part of it causeth flatulent humours, which being driven to the lower parts, cause crection. When they hart the

Chaplan Of the Silky Worm. young Lizzards, first they wrap them in their Webs, then they bite

their lips, which is a fight flelfor a Theatre, when it happens, Plin. le 11. c. 24. Alfo the same Authour, l. 10. c. 74, saith, that the Spider doth ballance himself, to come down upon the head of a Serpent that lyeth under the thade of a Tree, and he fo fiercely bites the Serpents brain; that he makes him to hifle, yet he can heither break the thred that hangs from aloft, nor yet run away and there is no end of it, till he kill him. When houses are like to fall, the Spiders first fall down with their Webs. Plin. I. 8. c. 282 When the Rivers ate like to the they rayle their nets higher, and because they weave not in falt weather ; bur in foule, many Spiders foreshelv tayn; Plin.l. 12.6. 24. Thethebaits as Paulanias withellerh, in Beotlem, were ignorant of that 3 For when the Spiders had woven white Webs about the dores of the Temple of the Goddesse Ceres, about that time that the battle was folighe at Leutra, when the Macedonians affaulted them, the Spiders Bull'all black Webs, which was a fign that fignified fomthing far different from the former.

CHAP. IV.

Of the Silk-Worm:

Onoras faith that the Italians knew not the Silk-worm before the dime of Justinian: in his dayes it was wittily found out and brought thither, Procopius. He adds, that two Monks brought silkworm eggs from India to Constantinople, and putting them into dung transformed them into Worms. Now Sera whence they came, is a City in the farthest parts of Persia, wherein there is made so much Silk work, that ten thousand pounds of Silk are daily given our to work-folks. Also in Taprobana Silk is gathered from Trees without any labour, as many Navigations have discovered. Nature hath thow'd so much art in this Insect, that it is impossible to comprehend it all. Much is written, and much more may be. First, it is a Worm, thir up in a bladder, it dies without any forme; at length a winged bufterfly comes forth of the cafe: wherfore a creeping Infect is changes ed into a flye by a medium that is vegetable void of fense and morion, by a strange metamorphosis. The little Worm first shintout, seeks abundance of nourithment, and eating greedily what the is able, by often lifting up her head, ftriving as it were with a Lethargy, he sleeps at length 3, or 2, days, and in the mean while casting her skin, fic falls to her wonted diet again, when the hath fed 4, zimes, flept 4, times, and 4, times changed her Coat, the will eat no more. but climbs up on high upon the branches, and twigs, having discharge ed her belly as it should, she begins to spin some rudiments of her Silken work upon the boughs, but in disordered turnings, then the thursher felf into a transparent case, and thrusts forth the fruit of her indefatigable labour, from the centre to the circumference, white Wqq)

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Wooll, yellow, and green, of an ovall figure, striving as it were with her sellows, in 9 dayes she ends her task, and dyes within it: From this case laid under ground, a horned Butterfly comes forth after ten dayes, but being neither mindfull of its wings nor sood, being about to repair the losse of its short life by its strutfulnesse of young ones, put into a soft sleece for 3. dayes together, but seldom for 4. dayes, is the male coupled to the semale, and dies; and shortly after the semale widow, leaving behind her about a hundred seeds like Miller seeds, she dyeth also. But because Andreas Libavius, a most deserving Physitian, hath most accurately described this from his own observation, I thought sit to joyn his historicall observation, as an Appendix to the end of this Classis, for the benefit of those that search the Secrets of Nature.

CHAP. V.

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Of the Spanish Fly, and the Glo-worm,

Antharides are bred from a Worm in a spungy substance, especially of the sweet-brier, but most fruitfully in the Ash. If they breed in Fig-trees, it is likely that the Tree will die, Plin, 1.29. Their venom is most tart. A Physician call'd out of Egypt, kill'd Cossinus a Roman Knight, whom Nero loved, with Cantharides in drink, when he was fick of a Tetter, which was a peculiar disease in Egypt, Plim 1. 1. c. 4. The same thing happened to an Abbot from a whore, Pareus 1. 20. c, 28. A Glo-worm hath a belly with roundles, divided with many fegments, in the end whereof there are two spots very light. like to fire, tending toward a kind of sky-colour. Then is the most conspicuous, when her belly is pressed, and that transparent humour goes to the end of her belly, and her breft against the light shines: like to fire, Aldrovand, de Infett. 1.4, c.8. There is something spoken of this, in the Second Classis. Adrianus Junius, when he was in the Country of Bononia, drew the liquor of them upon Papers that shined like Stars: what is writ with that in the day, may be read in the night. Many have shewed the way to compound it. Baptista: Ports doth it thus : we did out their tails from their bodies, taking care that nothing (hould mingle with the shining parts; we ground it on a Porphyc stone, and 15 dayes or longer we buried it in dung, in a glasse vessel, and it is best that these parts should not touch the sides, but hang in it: for these clayes being over, the glaffe being put into a hot oven, or a bath of hot mater, and fitted, you may by degrees receive that clear distilled liquor in a receiver underneath, and so putting it into a fine Crystall glasse, you may hang this mater that causeth light in your private Chamber; and it will so enlighten the Ayt, that you may read great letters. Albertus de fenfu et fenfato shews, why their light cannot be extinguished by water: For their light cannot be faid to be of a collectiall body, because a collectiall nature comes not into composition of bodies generative and corruptible: But the determination of this ... question

question and the like; is fetched from what we determined in our second de Anima; where we shew, That the nature of perspicuity is not proper to any Element, but it is common to many, and is participated by them per prius et posterius, which is the more pure, the farther it is from darknesse; and this is for by how much it is more like to the nature of superiour hodies; and the proper all of this is light, which bath to do in that nature. Now this falls out in it, as often as the parts of it are very noble and clear: and therefore all fuch things do shine. Now this composition sometime is in the whole body; sometimes not in the whole, but in some externall parts: the cause whereof is. that when such a nature is from the Elements that are light; it proceeds more from the internall parts to the external, because such things will swim. And so it is found in the heads, and fins, and bones of some Fish, and in the shells of some eggs, because such parts are lesse rosted, and heat hath wrought in them much nature of perspicuous bodies condensed: Sometimes this heat alls in the externall parts of some things, when it exhales from them, and that which is subtile brings with it much perspicuity; so the parts of Okes corrupted do Thine. But all those things that have but a weak light, are hid when a clearer light appears.

CHAP. VI.

Of the Grashopper.

TSidore writes, that Grashoppers breed of Cuccow-spit. Plutarch in Lsympof. saith, Out of the Earth. Baldangelus saith, they breed out of the earth not tilled, that looks Eastward toward the Sun-rising: and that white ones were dug up under Okes, but their form was, as the rest were. Aristotle 1.5. hist. c.30. saith, they breed by copulation. Pliny fets down the manner: First, there is a worm bred, then of that Terrigometra, or Mother of the Grashopper, the shell of it being broken, about the Solftices they fly forth alwaies in the night, being first black and hard; but when he strives to come forth of his Tettigometra; You may observe, that Grashoppers and Butterslies breed alike; for what is in these, at first, a Caterpillar, is in them, first a little worm; and that case, call'd Chrysalis or Aurelia, for the Catterpillar; is call'd Tettigometra, for the Gralbopper, Yet you shall know that they differ : For a rude Chrisalis is a lump wherein no parts of the body are distinguished, as we can discern; but in the Tettigometra you may see the head, eys, feer, breast, and all the parts, except the wings; it is whitish in colour, and forinkled with small lines; First he gets up.a Tree, and ficks to some branch of the Tree; then at the upper end where a cleft is first seen, he comes forth; his whole body is then almost green; shortly, his upper part enclines to Chestnut colour, and that in one day becomes of a black colour; and because his legs and wings are weak at first, he sits upon his cast skin till be can fly. In Cephalenia there is a River where Grashoppers are on one fide, but none on the other, Plin. 1. 11. c. 27. And Antigonus writes, that the same thing happeneth in Dulichium, an Island of the Ionian.

Of the Crabfish. Classis VIII.

Ionian Sea: Ambrosius Nolams writes the same of Nola, and the hill Vesuvius. In the Country of Rhegium they are all mute. In Locris beyond the River, they sing; in Acambus also they are mute, Pliny 1. 12.6.27. If you ask the reason, Straso thinks, that at Rhegium the Country is dark and shady; at Locris the heat is great; and therefore he thinks, that the dewy skins of their wings are not there extended; but here he thinks they have dry, and, as it were, horny skins. But because they do that when they sly, and when they stand, which the others are thought not to do, the heat is the cause of it: For being hotter by nature, they need more cooling, and move the Ayr the stronger: The others do not need so much, either because they are but of a weak heat, they are not heard to do it, therefore it may be thought they are said not to do it, Nicolam Leonicus.

CHAP. VII.

Of the Crabfish, and the Shell-fish breeding Pearls.

Ammarus, is a River-Crab; in his head, are two little stones: In the full Moon they are seen in figure of a Globe divided into two, Agricola. It is faid to cat flesh; It will cat the Pike in a net: And Gefner writes, That in Danubius, when flesh is tyed to their ships. and hang'd down into the water, multitudes of Crabs will hang about it: Some fay, that in June they will go forth to feed in the fields, catch Frogs, and feed on graffe. Fed with milk without water, he will live many dayes. Gefner kept one alive in water 13 days; put into distilled wine, burnt, he presently growes red, and may be fet on the Table alive amongst those that are boyl'd, Georg. Pistorius. The Males are easily discerned from the semales; For they, where their tail is joyn'd to their body underneath, have four long rods Ricking forth, but these have none: Also their tail is rounder, plainer, and thicker. Leonellus Faventinus commends the powder of their eyes drank with water of peach leaves, after opening a vein, against a bastard Pleurisic. The powder of them rubb'd on the teeth. cleanfeth and whitenerh them. In India a Shell-fish that breeds Pearl is fometimes found fo great, as they report, that in the Island Borness in the Sea, there was one taken, that the meat within it weighed 47 pound; yer methinks it is questionable,

CHAP.

CHAP. VIII.

Of the Snail.

He Snails which Dioscorides calls Garden Snails, are found in 1 abundance in the Mountains of Trent, and they are the best. In Winter they are dug up out of the Earth, and in Gardens, with some iron hooks, near to the roots of herbs, the Earth being dug forth. They are covered with a white shell against the cold, it is like to Gip, fo they lye under ground, hid, and afterwards they are more pleafant meat, Muthiolis. They have eyes in the top of their horns, and they pull them in when any thing comes near to them, and put their horns into their heads, their heads into their bodies, Albertus. They lay white eggs, as great as the Pikes eyes; and in May they are found to fit upon them, Gefner. Albertus faith, they are bred of corruption and clammy dew, and that that dew hardneth into a shell. Porta faith the same. Phytol. 1.5. c.4. Pliny 1.9. c. 5. faith, they are bred in Winter. Fulvius Hirpinus made Caves of them, in Tarquinis, a little before the Warr with great Pompey, &c. Pliny, 1.9.0.56. In the Island Seyathos, the Partridges feed on them; but those that are call'd Ariones, deceive them: For going out of their shells, they feed, leaving their empty houses to the Herns and Partridges. Elian 1.10. c.s. Andrews Fulnerus Gallus relates, That a Remedy is made of them to multiply hair: Take 300 Snails out of their shells, and boyl them in water, and take them out again, and gather the fat that swims a top, and put that into a glazed vessell, and pour a Sextarius of mater upon it; wherein Bay leaves have been boyled with three spoonfulls of oyl, one spoonfull of Honey, Saffron one foruple, and a little Venice Soap, and a spoonfull of common Soap moderately (tirred; boyl them altogether, with this liquor anoint your hair oftengand walh it with a Lye made of the Albes of burnt Colemort stalks, (the place is obscure, or corrupted) and you shall find your hair increase daily.

CHAP. IX.

Of the Gnat.

N Ægypt there are great store of Gnats, whence Herodotte calls it Conopæam, and Bellonius, observat. 1. 2. c. 35, writes that he was so vexed with them the first night, that the next day he seemed to have the Measils. In divers parts of India, there are kinds of Gnats, whereof some in Summer time especially, when the fields are cleansed, do lye in the Woods, others lye about the shores. At Myon a City of Jonia, there was a creek of the Sea not very great, which, when Meander a River of that Country running into it, that was very muddy, had stopped the mouth of it with mud, brought along with it,

Chap.11.

forhacin time it made a Lake, there bred from thence such abundance of Gnats, that the people of Myon, left their City, and went to Miletus. When the Northern people would hinder their biting, they sprinkle a decoction of Wormwood or Nigella on their heads, and the rest of their body, Olaus. Yet he makes a difference in their bitings. For they that have their blood pure and not corrupted, bite them they not. They meddle not with fruit before they grow sharp by corruption, and they most delight in sowre things. Leonh Jachin. But because they chiefly suck mans blood, they are called the spowts of the blood of Man. It is not proved that they will fuck things that are fweet. For the fweeter part of the blood that is most pure is consumed for nourifhment, and lyeth inwardly, that which is rawest comes next to the skin, whence it is that Pushes break forth of the body.

· CHAP, X.

Of the Urchin, the Ephemera, and the Catterpillar.

Ea-Hedge-hogs, fo often as they are toffed with the flowing water, make themselves heavy with ballast, lest they should be tossed too much being light, or carried away with a tempest; and so they flick fast to the Rocks. Placarch.l. Utr. Animal. The parts of the live ones covered with their shell, and armed with their prickles, if they be broken and cast into the Sea, they will come together again, and will know the part that is next to them, and being applyed they will joyne, and unite by a natural sympathy, Aldrovardus. As for the Ephemara, the River Hypanis in Commercius Bofpi orus, under the Solstice produceth little bladders greater than grape stones, out of which flying creatures proceed with four feet. This kind of creature lives till the afternoon, the same day; when the Sun departs it decays, and presently dies when the Sun sets, from hence it hath the name of Ephemer, or a creature that lives but one day. Aldrovand. As for Catterpillars; Hieracles testifieth; that if Horses rowle themselves upon them, black and blew spots will arise, their skins will grow hor, their eyes will be differred, and the cure is to bray vitriol one quarter of a pound, Vinegar half a pound. They feed on pot hearbs; bur if a rocket feed be fowed amongst them, they will not touch them. But that those hearbs may breed no noysome creatures, dry all the feeds you mean to fee, in a Tortis shell; or fow mint in many places, especially amongst Coleworts. Prasocurides, faith Cardan, are such living Creatures that use to do burt in Gardens; Men far, that if you bury the panch of a wether with the dung in it, not deep within the earth, in the place where they abound, in two days you shall find them all in heaps in that place; in twice or thrice fo doing, you may destroy them all. Paulus Agineta writes that herb rocket annoynted with oyle, will preserve men fafe from the bitings of Venemous creatures. CHAP

CHAP. XI.

of the Pilmire.

N the Kingdom of Senega there are white Pifmires, and naturally they build low houses. For they carry earth in their mouths, . and cement it without lime, you would fay that they are like Ovens or little Country houses, Scaliger, exerc. 367. In the Province of Mangu, they are red, and they eat them with Pepper. Scalig, enerc. 9. 6. Amongst the Brachmans, they are 4, fingers breadth in greatnesse; in new Spain they are as big as Beetls. Amongst the Darde, which is a mighty Nation in the Mountains of India, there is faid to be a hill of 3000 furlongs in compaffe, there are Gold Mines under it, that Ants as big as Foxes do dig into, Plin. I tnink, as Strabo doth, that it is a fable. In Baia Salvatoris there is an infinite company of them, they have in their mouths fomthing like pinfers, and with that they fo crop the Plants, that they dye with their biting of them. Aldrovand. In the same welt-Indies they are called Comixen, half-Pismires, and half-Worms that creep with a white tail. They cat into the Wood, and do great harm to houses. When they creep up a wall or house, they are covered with earth; a finger trick, and they live under this, O vied, in fum. Ind. occid. c. 52. In Brafil when they are bruifed they fmell like Cedar. Their head is fo fmall that they have no eys in it, but above it there are some additionalls like two hairs coming forth. It is a fign that these are their eys because when these are cut off, they mistake their way. Albert, trast. 4. 1. 6. c. 1. When this kind grows old, it comes to have wings. They breed eggs that have Worms in them, in white coverings; thele, being exposed to the Sun, breed Pismires. Alb. 1.2. 6. But in the new World it is otherwise; for when the old one is dead, innumerable Worms breed from the body of it, and they living after a wonderfull fashion, come forth ar last out of their subterrancal habitations in a wonderfull manner; Their Ant-hills is made wonderfull artificially, no City is made more curiously. Aldrovand. Lud. describes what he lawsthus. It feemed like a City with four square sides, four foot almost in length, and above a foot broad, and the Ants like Pifmires van up and down about their bufine Be init, as if they had been Citizens, the fides and angles were drawn directly, in the length of the City there was a way in the middle, a fingers breadth and depth, this was cut crosse with 3, other ways a fingers breadth and depth as the former very diretly. In the outmost corners of thefe ways, their eggs were layd together as in narrow turnings of the streets. On the other part of the City were dens fill'd with Corn, that they abounded fo far as the very ways. All the paths were most clean. Lastly in the middle of the length of the City, there was one gate right against the west.

CHAP: XII.

of the Horsleech, and Hippocampus.

Livalo writes, That in a River of Mauritania, Horseeches breed beyon cubits great: Their throat is hollow, that they breathe through; in all of them there is a little hole in the middle; and from the Mouth to the Belly, there is but one continued passage. In putrid I cavers they are of great use, for being applyed to the veins of the fundament, and setting on a cupping glasse, that the orifices of the veins may appear, they help much to ease the pains of the head, and to assist concoction. Some have drunk them down in drink, saith Galen: but the smell of Viglice will drive them forth. The Hippocampus or Sea-horse is a sish not to be eaten, of a singular form, for it hath a head like a horse, and a snowt and a Mane; the rest of the body is rough with grisly indentures. On the back, it hath a tail with a sin, that is four square and pliable. It is in length a span; being taken, it shortly dyes; and when it is fresh, it shines in the hight.

CHAP. XIII.

Of the Locust, that is an Infest.

Bout Brundusium there is an infinite company of Locusts. In the Island Lemnos, there is a certain measure set for men that shall kill them, and they must bring it to the Magistrate. In Cyrene thrice a yeer they are to bekilled; and he that refuseth, is punished for his default, Plin. Amongst the Nigreta every 3. years there are such abundance, that they shadow the skie at least 12 miles. In Hispaniola they want wings, Aloysius Cadamustus. Vincentius reports, that a woman bred up one; when it grewup, it was found to be with young ones of it felf. Anno 852, when they wasted France 20 miles in one day, they went as it were in Troops, and pitched their Tents upon the earth. The leaders with a few more went before the whole Army a dayes journey, as if they went to take up quarters, the next day at the same hour they all arrived. They did not march till Sunrifing; when the Sun arose, they marched by bands. In the sixth year of the Emperour Argyropolus, the Locusts did so much mischief in the Provinces of the East, that the Inhabitants were forced to fell their Children, and to passe away into Thrace. The wind afterwards cast them into Hellespont, but the next year they revived again; and having spoyled the Provinces three years, they perished at Pergamus, Cedrenus.

CHAP.

CHAP. XIV.

Of the Sca-Hare, the Lobster, with his ishell, and the Calamarie.

He Sea- Hare hath a body all white, you would think it to be an L little box, or congealed flegme. It is feldom taken but in great heat of weather; for then all things are troubled by the extream heat even those things that I ye at the bottom of the Sea. And though very few water-Creatures are found to be venomous, because they dwell in moysture, which for the general is contrary to venome; and tome creatures contain their venome in some part duely, as the Spik der-fish in its prickles, the Sca-Ray in the radius, yet the Hare is poylon all over. Titus the Emperour was reported to be poylon'd with this by his Brother Domitian; For when the Oracle was confulted concerning the manner of his death; The answer was, He should perish as uly ses did, by the Sea. Now uly ses was killed by the fling of the Ray. They that die by the venom of it, will be fo many dayes in dying, as the Harelived, Licinius Macer, in Pling, 1.21. c. 2. Lobsters will not breed in the Sea Euripus, if we credit Aristotle hist.9.c.37. but in the Indian Sea, they are 4 cubits long, Pliny 1.9.c.3. Concerning the Calamaries, Pliny writes out of Trebius Nigersthat they fly fometimes in such multitudes, that they will drown Ships. But Albertus 1. 24. de animal. faith, That in Sexus a River of Mauritania, & Calamarie is five cubits long, and near the Sea he will fly like an arrow. Rondeletius thinks, that this is nothing incredible, when as they fwim many together, holding one upon the other, and therefore many are taken together.

CHAP. XV.

of Pearls.

Tearls are in some Shell-sish like the upper crust; in others like to the Oss-spring; in some like hail. There are many in them, and of great weight. In a bosom of the Sea of the New World, there are some as big as a Bean; in the Island Solon, bigger than Turtles Eggs. Martyr writes, he took an Oyster there, that the meat of it weighed above 47 pounds. The King of the Island Eubagna, had one so big as a Wallnur, it weighed 31. caracts, and it was sold for 1200 pieces of Castile. Gonzalvus Oviedus saith, that one was sold at Panama, that weighed 26 caracts, it was sound, and as big as the knob of a Pillar.

It is faid that necre the Island Borneo, there was one at great' a Goose egge; and so round, that lay'd on a Table, it will hardly stay in one place. Peter Martyr, Decad 1.1.8. faith, That in his presence, when he was invited to dine with the famous Duke of Medina Sidonia, at Bætica;

Bætica, they brought one to fell unto him, that weighed above a hundred ounces Heaps are cast up of shells in Summer, some of them have Pearls in them that are ready, others not yet perfect, out of a River that runs by the Village of Huffin in Bohemia; These they give their bucks to devoure, then they gather up purer, being clensed in their Bellies, Gefner. Five or fix are found in one. Vesputius saith he found 130, in some Indian Oysters. Somtimes some small ones are found behind, like to small kernells. But the question is how these are bred. Some think they are bred of the dewy ayre; but this opinion seems to be false. For some lye in the bottom of the deepest waters, and some are black, some yellow, some green, some blew. Oviedus, hist. Ind. 1. 9. c. 8. But they say that the white ones are bred of pure dew, the pale ones of thar which is troubled. Androstenes in Athenem saith that as kernells arebred in hogs, fo Pearls breed in shell fish. Juba, as Pliny faith, subscribes to this. The Indians, that inhabit the Island Cabagna, say, they breed as eggs do in them. For the greater of them are next the orifice, and are first thrust forth, but in the more inward parts of the Matrix, the lesser Pearls lye hid. Rondeletins and Alexander Benedistus compare their originall to that of stones in some greater living creatures; we fam, faith he, stones voided forth of ones bladder as big as a hens egge, over which a clammy matter grew by degrees covering them , like to a crust of diwers colours fortimes, and they were hardned by a fiery heat, and fo they are faid to increase by little and little. Pearls in shell-fish are reported to grow the same way, and the Jewellers can discover by a turning instrument divers coats in them, as we fee in Onions And Rondeletius faith, he thinks that Pearls grow the same manner in shell-fish, as kernells do in hogs, and the stone in the Reins and the Bladder. The yeare wee writthis, there was one died that had a Stone in his Reins, that had fo many partitions as there were branches of small Veins in his Reins. The littleslone with these partitions was like the outmost knob of a round white marble, or like a great Pearl for its figure and brightneffe, I think it was compatted of a vitreous flegme. Therefore it is no wonder if in Oysters and shell-sish, when they grow old, Pearls are to be found. They may also be dissolved, the Chymists shew how. Cardanus faith, you must first wash them being entire, and strain the juyce of Lemmons twice or thrice; then put them in , and fet them in the Sungin five or fix days they will diffolve,

CHAP. XVI.

Of Flyes.

TN Cyrene there are found many kinds of Flyes, distinguished by A their forms and colours. Some have broad foreheads, like to Weafils, others are like to Vipers. They fay that in Sicilie and Italy they bite so sharply, that they will kill whom they bite. At Toledo in the shambles somtimes one Flye will appeare for a whole yeare, that is notable for its whitenesse. Rhodigin, l. 17. lest, antiq. c. 11. In Hispaniola

Hispaniola, they are green and painted, especially in the City of St. Domingo; they are as great as Wasps, and dig the earth with their feet, to make themselves houses under ground. Strabo saith, the Spaniards have a flye peculiar to them, in great numbers, and it alwaies comes with the Plague; that in Cantrabia the Romans appoint ed some, to catch these Flyes, and gave them a set reward for it, by number. In Carina a Mountain of Crete, that is 3; miles about, there are none, Plin. l. 21. c. 14. Nor was there ever any feen ar Rome in Hercules Temple, nor yet in the Island Paphos in Venus, Temple, Apollonius. Lasty Emma the wife of the Duke of lower Saxony promised a fruitfull patture ground to the Church of Breine, not far from the City, that had this prærogative, that no Flyg should moleft the Cattel there, Crantzius, 1. 4. Saxon. 1. 29. The Hebrews, faith Toftatus, invent old wives tales concerning them, for they fay that David inquired of God why he made Fools, Spiders, Flyes, with other things that feeme not only to be superfluous, but dangerous; and God promised to make it appeare to David that these things were profitable for some things. For foolishnesse, it was manifest; for unlesse he him-Adf had counterfeited the fool's part before King Achie, he had been taken captive, and perhaps perished. And the Flye was usefull, when he descended from the hill Hacbilla into Sauls camp, when all were a fleep, and took away sauls spear; for then he set his feet between Abner his feet who lay about Saul, and when he feared least he should be taken, if he should violently draw out his foor, God sent a Flye who bit Abners legs, and so Abner gave way, and yet did not wake Abner, so David escaped. Lastly the Spider did him good service, because she hanged her Webon the mouth of the Cave, wherein David hid himself, when Saul searched after him. To drive them away many men have invented divers means. If a peice of an Onyon be laid upon flesh, some think the Flyes will not come at it; Miraldus cent. 7. Aphor. 72. faith, they will not come into a house, if a Wolfs head be hanged up in it. Dioscorid, 1, 4, c. 3. faith that the fume of Loostrife will drive them away. Plin.1.23.c.8. faith that white Hellebour bruised with milk, and sprinkled, will drive them away. Those Plyes that live on the branches of Napellus, are good against any venemous bitings, if we credit Scaliger Exerc. 85.

Of the Boat-Fish.

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Chap. 17.

CHAP. XVII.

Of the Boat fish.

Bellonin gives an exact description of the Boat-fish; The shell of it seems to consist of 3. pieces, (namely the Keel and the sides, and yet it is but one entire piece) the side-pieces whereof feem to be joyn'd on both sides as to the Keel. It is commonly as great as we can clasp in both hands, and as broad as the space between the thumb and the foresinger: but they all in thicknesse do not exceed a piece of parchment, and with ridges drawn to the borders, they are plaited with indentures, ending in a round form; The hole

by which the Boat-sish is nourished, is very great at the place he comes forth of his spell; This is very brittle, milk white, shining, polished, altogether representing the form of a round ship; for it swims on the top of the Sea, arising from the bottom, and the shell comes the bottom upwards, that it may ascend the better, and sail with an empty Boat; and when she is come above the water, then she turns her shell. Moreover, there is a membrane that lyes between the fore-legs of the Boat-sish, as there is between the toes of water-sowl; but this is more thin, like a cobweb, but strong; and by that she sails, when the wind blowes; the many tusts she hath on both sides, she useth for rudders; and when she is asraid, then she presently sinks her shell, sull of Sea water. Farther, she hath a Parrots bill, and she goes with her tusts as the Polypus doth, and after the same manner she conceives in hollow partitions.

CHAP. XVIII.

Of Oysters and Muscles.

1 To Hough Oysters love sweet waters, yet Pliny reports that they L are found in stony places; but Aristotle saith, that though they live in water, and cannot live without it, yet they take in no movsture nor Ayre. When in the time of the Warr with Mithridates; the earth parted at Apumaa a City of Phrygia, Rivers did suddenly appeare, and not only sweet but salt waters brake out of the bowels of the earth, (though the Sea were farr distant) fo that they filled all that Coast with Oysters. Athen. 1.8. The Oysters are of divers colours. In Spain they are red, in Sclavonie brown, in the red Sea they are so diftinguished with flaming Circles, that by mixture of divers colours it is like the Rainbow. Elian. 1. 10. c. 13. At the beginning of Summer they are great and full of milk. At Constantinople they cast this wheith matter into the water, which cleaving to stones, will beget Oysters; Gillim writes it, and it is very probable. For, of the decoction of Mushroms powred on the ground, it is certain that Mushroms will grow, the Crabfish doth wonderfully desire the meat of them, but he comes hardly by them because they have a strong shell by nature, wherefore he uleth his cunning. For when in places where the wind blows not, he fees them taking pleasure in the Sun, and to open their shells against the Suns beams, he privately casts in a frone, that they cannot thut again, and so he conquers the m.

CHAP.

CHAP. XIX.

Of the Butterflye, and the Polypus.

He Butterflies couple after August, & the male dying after copulation, the female lays egs, and dieth alfo. How they are preferved in winter, is hardly discovered by any man, except by Aldrovandus de Infellis. But he enquired of Country people, and they hold him, that the leaves were great with the Butterflies feed; at what time they plowed the ground, they were hid in the bowells of it, and fostered by its heat, yet he thinks that they only are preserved, that lye hid in the hollow barks of Trees, but what lyes on leaves is quickned the same yeare. And Aldrovandus adds , I fam eggs layd under the leaves of Chamæficus out of which about the end of August, little Catterpillars naturally came forth. They were wrapped in a thin down, that the agre might not hurt them, and these little Catterpillars falling did not fall to the ground, but hung by a small thred like Spiders in the Ayre. when they lay under leaves, they fold them fo that the rain cannot hurt them , and lay them up as under a penthouse. Itwice offerved one Catterpillar, that I took amongst the Coleworts, first to lay yellow eggs, wrapt up also in fine down, and when they were laid she turned into a Chrysalis, of the same colours that she was, that is, yellow, green, and black; and that which feemed strange to me, out of those eggs, little flying creatures came forth, that I could hardly fee them, fuch as are wont to be found in the bladders of Elms: when they are in great abundance they shew contagion of the Ayre. Anno 1562, they flew at Bannais neere the waters, in fuch multitudes, that they darkned the course of the River, especially after Sun set; then coming hither about night, they wandred through the Villages as in Battel aray, little differing from Moths. Cornelius Gemma testifieth that that was a tempestuous yeare. The Polypus in time grows so great, that it is taken for a kind of Whale. In the bowells of them, there is a strange thing like a Turbane, that you would say it had the nature of the Heart, or of the Liver, but it suddenly dissolves and runs away. They exceedingly love the Olive-Tree. For if a bough on which Olives hang, be let down into the Sea and held there, you may catch abundance of them, hanging about the bough. Somtimes they are taken sticking to Figg-Trees growing by the Seaside, and they cat the fruit of them. They also delight wonderfully in Locusts, of which you shall find a cleare Testimony in Petrus Berchorius. I have heard, faith he, that some Fishermen in the Sea of Province, had set Locusts on the shore to boyle over burning coles, and a Polypus smelling the Localt, came forth of the Sea, and coming to the fire would with his foot have taken a Locust forth, but he seared the heat of the fire, and so went back to the Sea, and filed a coat which he had on his head, like a Friers cowle, with water, and went and came so oftens with it, and cast it on the fire, that he put the fire out; and so taking the Locust, he had carryed it to the Sea, unlesse

CHAP. XX.

Of a Lowse, and a Flea.

Come think, that Lice are bred of flesh; others, of blood; but Noth opinions are false: For first they breed in the skin of the head, and we know they abound in the fecond and third kind of hestick feavers; when as, there, is little flesh; and, here, they are almost confumed. Again in putrid Feavers they breed not; and things bred do confirm their principles. Their colour shews they proceed not from blood. Wherefore some think they breed from putrid matter that is cold and moyst, which abounds in the skin, in places where they cannot be blown away. Experience teacheth, that they will leave those that are dead, either because the blood is cold in the body when the heat is gone; or because the dead body is cold, and they fly from the cold, Nolanus Problem. 225. They that cat figs often are thought to be troubled with them. Nolanus makes the juice of them to be the cause. For, this increasing in the veins heats the blood, and makes it moyst and frothy; which because it naturally tends to the skin, and retain'd under that it putrefies, it turns to lice. Truly they, that feed on figs, have little knots and warts on their skins. A Flea is a small Creature; yet Africanm a cunning Artificer, tied one with a gold chain, and it leaped, Scaliger Exerc. 59, and 326. He most commonly bites under the groins: The tumour begins to grow the fourth day; when it comes to its full growth, its bigger than a Peafe, and it is full of Nits; They are killed with the root of wild Buglosse: also with Sage bruised, and mingled with oyl and vinegar; anoint with this against them. The best remedy is Silk-yarn put into the bed, for they will gather together in it. Franciscus Georgius Venetus, of Minoritum, faith, they will trouble one more in linner than in woollen. He gives his reason, because they both proceed from the same Northern Fountain; for they are both in Aries and March bred. But Aldrovandus thinks it comes to passe, because linnen is more near to the body than woollen. Wherefore you shall find them hungry in your shirts and sheets; but in your breeches full, where they lay their eggs.

Chap.21. Of the Beetle and Cuttle.

CHAP. XXI.

Of the Beetle and the Cuttle.

TN Chalcida of Thracia, which is next to Olynthus, there is a pretty Llarge ground, called Cantharoletron. When any living Creature comes thither, it abhors it, and departs, yet safely; onely the Reetle, but going about it, dyeth for hunger, Arift.in admirand. The female Beetle is never bred; but the male, when he hath made a round ball of Ox dung, rolls it with his face backwards, & begets her by fending in his feed, Clem. Alex. 1. 5. ftrom. Yet Aldrovandus faith, That Crabs are begotten by Copulation: for he found, that in May, in two hours space, the female produced above 40 little white worms, like to Wesvells. They were small Caterpillars coming forth like Silk-worms, which in five hours began to weave balls of very fine thred white, as big as Pompions feed without the hull, l.4. de Infestis. Ruelling faith, That the New Moon is known by their breeding, 1,2, destirp, c. 1501 For (faith he) they roll little balls of Ox dung from East to West, and make them as round as a Globe, which they bury in a hole in the ground 28 dayes. and conceal it folong, till the Moon runs through the Zodiack, and returns to its Conjunction and disappears; then opening the ball that shews the conjunction of the Lights, they let forth the young one, nor hath it any other way of breeding. Cut into two, they will live; but the smell of Roses kills them. The Cuttles lay eggs like to black Myrtil berries. They Rick together like a bunch of grapes, and cannot be separated; For the male casts some humour upon them, the clamminesse whereof holds them together. They breed all the year, and they continue to days to lay eggs, Ariftot, histor, 5. c. 12. When the knows that cunning Fishers fish for her, the casts forth her ink, and being environed with that, the Fishers cannot see her: she hunts small fish with her promuscides: Whence Oppianus writes;

The cunning Cuttle when she hunts her prey, With slender branches from her soft head springing, Like to sine cords, small Fish without delay. She takes, they hold like hooks, when as they clinging, Lye on the sand, she with her tail makes way.

Anaxilaus in Pliny saith, That the ink of her is so strong, that burnt in a lamp, it will make those that sand by, look like blacks-mores, the first light being taken away.

CHAP,

CHAP.

261

CHAP. XXII.

Of the Scorpion.

"Y Edrenus faith, that in the defarts of the Brachmans there are Scorpl-Jons of two cubits. In the place where the Turks fell Christians, Nicolaus à Nicolais, saw some that were yellow, as long as a mans finger. In Agypt they have wings, and two stings. Alian. 1. 16.c. 42. In Scythia, if they sting Man or Beast they kill them. Also hogs, though they feel not other venemous bitings, yet dye of these, chiefly if they be black; yet each of them dies inddenly, if he come at the water. Ariftot. 1. 8. c. 29. In the antient habitations of the Scaligers, that are in the coasts of the Alps by Noricum; they are all the Country over, without doing hurt; and they are in fuch multitudes that you can remove no stone, but you shall find one under it. Scalig. Exerc. 189. In barks of Trees also, they breed without a tayle. They will turn themselves so fast in a circle, as if they were moved with a pairc of Compasses. Exerc. 196. In the Country that Ives next to those that feed on Locusts, such abundance of them bred once of immoderate rayn, that the inhabitants were fo stungthey were forced to leave their Country; Diodor. Sicul. 1. 3. c. 3. Some fay that Scorpions devoure their young ones, leaving only one that is most fubtile, pliny, This fits fast within the thighs of its dam, and is free from the biting and tail of it, and this revengeth the death of the rest. Pling. 1. 11.c. 25. Aristotle thinks the contrary, 1. 5. c. 26. His sting is most dangerous in a dry Country, and when the Dogg-Start is up. First the place begins to be inflamed, waxing hard and very red. Somtimes it is very hot, somtimes very cold, sweat follows, shaking and trembling, the outward parts are cold, the groins swell, they break wind backwards, the hairs standanend, the limbs are pale, Cardan. l. 1. de. venen. c. 23. Many remedies are invented; Those that live in Africa going to sleep, annoynt their beds, and their feet with Garlick. Strabo, and Alexandrinus, faith Jovianus Pontanus doth testify, that one was cured presently by drinking bearen Frankinsence, wherein the picture of the Scorpion was engraven. Also its sting loseth the force, if it touch Bezar Stone. Jacob Hollerius, l. 1. c. 1. de morbis internis, writes, that by the frequent smelling of an herb of Brasil, an Italian had a Scorpion that bred in his brain: and Albertus faith that Avicenna had a friend that could of rotten wood make Scorpions when he pleafed; and he adds, that from them others did breed.

CHAP

CHAP. XXIII.

Of Worms in Wood, and the Tarantula.

He Teredo grows in Wood, and there especially he feeds. And though they are bred in many Trees, except the Oke and the Tyle-Tree, yet there are other Trees that they breed not in. For Theophrasus and Pliny write, that the Firr-Tree, the bark being taken off of the branches, will remaine in water without any hurt, That mas apparent, faith Theophrastus in Phneum of Arcadia, where the ground was narrow into a Lake, there were bridges made with firr; when the water swelled higher, there were other planks laid one upon another; at last all that stopped being thrust forth, the whole frame was borne away, and was found uncorrupted, lo that this was found out by chance. Vincentiss exauthore libri de Natura yerum, fets it down for a miracle, that Box and white Thorn which are the hardest Wood will breed Worms: But the nut of Æubæa will never putrefie. Laftly inTylus an Island of Arabia, there is Wood that will never corrupt in the water: for it hath been obferved to have lasted 200, yeares in the water uncorrupted. The Phrygians, if we will credit Rhodiginus, made their dainties of white fat Worms with black heads, that bred from rotten Wood, called Xylophagi. Elian, writes that the King of the Indies used for his second course, a certain Worm breeding in Plants, and it was broiled at the fire. Lastly in an Island call'd Talacha, there are Worms like to those, that breed in rotten Wood, and are the chiefest dish of the Table, Johannes Mandevil. Tarantulæ are a kind of Spiders from the City Tarentum. They are harmlesse to look upon, but when they bite they cause divers symptoms; For those that are stung with the Tarantula, some alwaies sing, some laugh, some cry, some cry out: for being infected with black Choler, according as their temper is, they have all these symptoms.

CHAP. XXIV.

Of Worms.

Article 1. Of Worms in Brute Beasts!

Ottennesse is the mother of worms, which whence it proceeds; is known by the generall principles of natural Philosophy. Therefore because in Guiney there are great putrefactions, by the continual distemper of the Ayr, there are found abundance of worms. Hence it appears, that a hot and moyst distemper is sit to breed them; that in Summer Moneths, and when the blass are warm, Gardens commonly abound with Snails, and sless with Worms: They are found in Cattel, Plants, and in men. Anno 1562, There was a cruel murrain

murrain for Cattle, worms breeding about the region of their Liver, Cornelius Gemma. A worm sticks to the forked hoofs of sheep and Rams, which unlesse it be taken out when you cat the meat, it causers loathing and pain of the stomach. The Mullet fish breeds but onely thrice in its life-time, and is barren all the rest of the time. For in the matrix of it little Worms breed, that devour the seed. In others, some small ones breed, that hinder procreation.

Of Worms in Men. Classis VII

Artic. 2. Of Worms in Men.

Orms are found in Men. For sometimes the active cause is sufficient, and there is matter enough in their bodies; and many examples are found every where in Authors, that confirm this. Anno 1549, There were many men about the River Thayfa, in whose bodies there were found Creatures call'd Luire, and Lizzards. wierus faw a Country man that voided a Worm 8 foot long, it had a mouth and head like to a Duck, 1.3.c. 15. de prastig. Damon. A Maid at Lovain (faith Cornelius Gemma) voided many prodigious creatures, among ft the rest a living creature a foot and half long, thicker than a mans thumb, like to an Eagle, but that the tail of it was hairy. A Maid (faith Dodonaus) call forth some like to Caterpillars, with many feet, and they were alive. Hollerius I. x. faith, he faw a Worm that bred in a mans brain. Beniventus c. 100, exemp. medic. writes, That he had a friend that was troubled with great pain in his head, raving, darkneffe of fight, and other ill symptomes; at last he cast forth a Worm our of his right nostrill, longer than his hand; when that was gone, all the pain presently ceased. Theophraft. hift. Plant. 1.9. c. ult. writes thus of worms in the belly; Some people have belly worms naturally; for the Egyptians, Arabians, Armenians, Syrians, Cilicians, arein part troubled with them, but the Thracians and Phrygians have none. Amongst the Greeks, we know that the Thebans, that use to live in Schools, and also the Bactians have a worm bred in them; but the Athenians have none. A woman in Sclavonia cast out a very strange worm, described by Amat. Lusitan. curat. medic. Cent. 6. 74. It was four cubits long, but not broad, half so broad as ones nail, of a white colour, of the fubstance of the guts, having something like an Adders skin: The Head was warty, and white, out of which the body grew broad, and grew fell narrower toward the tail. This worm was but one body with many divisions; the parts of this broad worm were like to Gourd feeds, that hed nothing contain'd in them by reason of the compression of its broad lody.

Artic. 3. Of Worms in Plants.

A Ll Plants, herbs, shrubs and Trees have their worms: a worm in the root is deadly. For let the Tree be what it will, and thourish, yet this will make it wither, saith Aldrovandus 1. 6. de Insession of Okes such venomous Worms will breed, that if you should but tread on them with

with the sole of your foot, it would fetch off the skin. There are small white ones found in the sponge of the sweet bryer. which is outwardly foft and hairy, but inwardly so hard and so folid a substance, that a sharp instrument will hardly peirce it. In the white Daffodill, some are bred, which are changed into another flying and beautifull creature, which when the herb begins to flourith, presently eats through the cover, and flyes away. Pliny, 1, 20. c. 6. writes, that some think that Basil chewed and laid in the Sun will breed Worms. If you bruife the green shells of Wallnuts, and put them into the water, and then fprinkle them with earth, Worms will breed in abundance, that are good for Fishers, Carol, Stephan, Agricultur, 1. 3. c. 34. But Theophraftus 5, de cauf. Plant. faith, that a Worm beed in one Tree, and put into another, will not live. 70achimus Forties reports that he faw-fome who affirmed that from a hazel nut that had a Worm in it, there grew a Serpent for magnitude and forme. For the nut being opened fo farr as the Worm, and the Worm not being hurt, they put the nut into milk, and fet the veffel of milk in the Sun, yet fo that the Worm was not beaten upon by the Sun; wherefore, on that fide the Sun shined, they covered the Veffel, and so nourished the Worm many days. Afterward adding more Milk, they fet it to the Sun again. The milk must be sheeps milk. Also they report, that a Worm is found in the leaves of Rue, nourished the same way, that lived 20, days, Theophrasis writes of the cause of them, plainly and fully. His words are these. Ill diseases happen to all feeds, from nutriment and diftemper of the Ayre, namely when too much or too little nourishment is afforded, or the Arre is immoderately moyst or dry, or else when it doth not rayne scasonably. For so worms breed in chiches, vetches, and peafe; and in rocket-feeds; when it hot weather falls upon them before they be dried; but in Chiches, when the falt is taken from them, and they become sweet. For nature doth every where breed a living creature, if there be heat and moysture in due proportion. For matter comes from moylture for the heat to work on, and concost; as we fee it happens in wheat. worms will breed in the root of it, when, after feed time, Southern winds blow often. Then the root growing most, and the Ayre being hot, the heat corrupting the root, ingendreth worms. And the worms bred, eat the roots, continually. For nature bath appointed that everything shall feed where it is bred. Another kind of worm is bred within, when the moss fure cannot come forth, Shut in by the drine Se of the Ayre about it; then the heat contracts it, when the corruption is made. Then also food is administred to it, from the same thing. The same thing seems to happen to Apples and Trees that are worm-eaten from drought. For the little moysture that remains in the Tree, causeth corruption, whence the worm proceeds; but when there is plenty of nutriment it is otherwise, for then the juyce is sent forth to the upper parts, for it conquers by its quantity, and cannot corrupt. Next to this is that which happens to Vines, for in these especially when the South wind blows, worms breed, that are called Ipes, that is when they are very moylt, and the Agreeauseth fruitfullnesse, then do they presently gnaw the matter that is of the same nature with them. Also Carpa breed in Olive Trees the

Chap.25.

Same way, and such as breed in other things, both when they bud, and when they flowe , or after that the flowers be over. For they all proceed from the same cause. But this chiefly happens to Vines becau are most by nature, and their mossture is without tast and watery. I a mossture, may be cafily affected. Somtimes Ipes cannot be bred , beanje the agre it pleasant and not too moult.

Artic. 4. Of the Indian Worm, and the March Worm.

M Ganges it is miraculous, they report there are blew Worms with two legs, that are 60 cubits long, and they say they are so strong, that when Elephants come to drink they will catch hold of them, by their trunk and carry them away. Elian speaks of an Indian Worm of seven cubits long, and so thick that a Child of ten yeares old can hardly fathom it. It hath one tooth in the upper part of the mouth, and one below; both are four square, and almost a cubit long, and fo ftrong, that what living creature it lays hold of with them, it will easily crush them. Somtimes it lyes hid in the bottom of a River; in the mudit delights in. At night it comes on land, and catcheth whatfoever comes in the way. The skin of it is 2, fingers thick. The way to catch it is this, they fasten a strong hook to an iron chain, joyning also to it a rope of white broad flax, and they wrap both the hook and rope in wool, that the Worm may not bite them off. Then they put a Lamb or a Kid for a bait upon the hook, and so let it down into the River. Thirty men stand ready with Darts, Leashes, and drawn Swords, and strong pikes well pointed at the ends, if they should have cause to strike. When he is caught with the hook, they draw him forth and kill him. They hang him up against the Sun 30 dayes, and thick oyl distills from it into earthen pots; every worm will yield 5. Sextarii of oyl, the rest of the body is good for nothing. The vertue of this oyl is such, that without any fire, a measure of this poured on, will fire any flack of wood, Elian. It is faid, that the King of Persia took Cities from his Enemies with this oyl; It cannot be put out but with abundance of thick clay. The moneth of March in Germany is wonderfull, that breeds young creatures in Rinking filthy waters, that are like to guts, and feed only on fand. If any man go into that water barefoot, where this creature swims on the top of the water, he shall have a circle on his legs, as high as the water came, Card. 1. 7. de var. c.37.

CHAP. XXV.

of Wasps.

Sometimes they are found in a Stagshead, fometimes in his nostrills. One brought one of these formed Wasps houses that was wonder-

Wonderfully made, to Pierin Valerianin, at Bellunum, from fonic Wood in a defart: Which he describes thus: There were 7. Concamerations or rounds, one above another, set at two fingers distance, distinguished by little Pillars between, that every one might have space enough to go and come to his house. The diameter of the rounds unto the fifth, was about 12 diets: the others from the lifth, were made narrower, by little and littles fo that the Last was 5. or 6. digits. The sirst round, that is, the sirst Chamber, was hanged to a bough of an old Tree, fenced and quarded with a crust against all injuries of wind and weather; Beneath there were fix angled Cells very close todether, so that the other Chambers were all overcast with the same crust, and made with the like Cells; and all were held up with their pillars. All these Creatures slew out of the upper stations, and an innumerable multitude filled the middle Concamerations, a thin skin being drawn for a cover woon The Hole of every one of them; when I had taken some of them away, I saw the Wasps with their heads downwards, that filled all those houses. But those that were in the lowest rooms seemed like to Embryo's of, like impersect worms; they were also fenced with the same covering, but very thin; as snails in winter, kept for a milder time in the Spring. But thefe all died there, by the extream cold winter yet none corrupted; and after so many years they keep the same form and posture. They are most lively; for, part their belly from their breaft, and they will live long, and will fometimes prick one that toucheth their fting, an hour after. Arifotle faith, That if you take a wasp by the legs, and make him to hum, (not those that have a sting, but those that want one) the rest will fly to help them. If they appear before the end of Ollober, they foreshew a hard VV inter. If they go in heaps under ground before the 7. Stars rife in the Evening, they figuifie the same. A swarm of wasps is naturally an ill omen. So Livy thought, when at Capua, a great swarm of them flew into the Market place, and settled in Mars his Temple: They were collected carefully, and burnt in the fire. The Decemviri were commanded to their books, and the Nine-daies facrifice was appoinred, supplications were made, and the City was purged. If any one touch the skin of a man with the distilled water of the decoction of Hornets or VVasps, the place will so swell, that it will cause men to suspect poyson, or a Dropsie, or some great sicknesse; The remedy is Theriac drank or imcered on it, Mizaldus Memor. Cent. 7.8cc.

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APPENDIX

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The Eighth Classis:

Wherein there is contained the Observation of Andreas Libavius, a most famous Phyfitian, concerning Silk-worms, a singular History, Anno 1599, at
Rotenburgh.

Ince it is hard to explain the opinions and experiments of all Authors exactly, and what they observed in divers places and imes, to make a history thereof, and to condemn or allow, for this or that mans relation, what every man hath found to be true by his own use and observation: Perhaps it may so fall our, that neither Pliny, nor Paufanias, nor others, who feem to comment otherwise than we have found it, ought to be condemned; I will adde a special History of Silk-norms bred up at hand, which in the year of Mans Redemption, 1599, at Rotenburg at Tubaris, I, by diligent care and attention looking into their works and natures, fet it down into a Calender. If any thing differing from this, hath been observed in Greece, India, Italy, or elsewhere in other Times, Government and Education, Custom, and the like: though Nature be faid to act alwayes the same way, and to vary onely by accidents; yet what they observed will help, that by many mens observation, the history of Nature may be augmented and perfected.

The Silk-worns eggs that were laid in a clean paper the year before, and which in Winter I kept in a warm Chamber, I exposed them to the Sun, shining through the windows, on the 25 day of April. Those which were lead-coloured or black, they did not all in one day become Caterpillars, yet they all were changed before the end of that moneth, the worms creeping forth especially in the morning, as every one was grown to perfection, leaving an empty shell, or covering of a white colour, the egge being eaten on the side, in which place the ends were blackish, by reason of the biting. The purple or Citron coloured, or clear, or distinguished with a black point, brought forth nothing; either because they were not touched

with male feed, or the principle was suffocated in them. These small Catterpillars within the egge obtain their form, and lye wrapt into a Circle; whence the shell being caten, they sirst put forth a black shining head; then by degrees, they creep forth, with their little mouthes, and little feet, by their striving. Then I observed little threds hanging from their mouths, and they were so small, that they could not be seen, unless it were against the light: by these they ballance themselves, and hang from the leaves; or whereseever they sell from higher places, they creep up by them again; or wherese ever they were hanged, to try what they would do, they involve themselves with manifold turnings, and so mount upward, like ordinary

Catterpillars that eat leaves and boughes.

There is a black little worm and hairy, with a white circle near the breast and head, and with another where the belly joyns to the little breast, and yet by reason of the hairinesse, it is not very plain to be seen at the first. At the end of the back, where the belly ends, a little grifle comes forth; and as for the rest of its form, it is the same with the Silk-worms, but that the hairinesse and blacknesse, by some changes in the skin, passe into smoothnesse that shines, and is white; and of a small creature, a worm is made as long as the middle finger of an ordinary man, with the 3. joynts, as thick almost as the little finger; yet they are not all of one bignesse. You shall find fome Caterpillars with a three-fold spur in their tails, or a double one; so that the greater of them riseth from the last circle of the back, the lesser ones rise presently from the coat of the tail that is under it. I faw one great one that was on both fides fenced with two leffer ones, in the place whereof there are fometimes onely two points that stick forth. Catterpillars go as Silk-worms do : For they stick the props of their tails into the ground, and then by degrees they go on by circular motion. First drawing up those parts between their tails and their hinderfeet: then fastning these upon the distance between their breast and their feet, untill they come unto their breast and former seet; which being fastned, they lift up their tails again, and underprop their steps. For animal motion is made, when some part stands and underprops the rest. So soon as they were bred, I gave them the tender leaves of Mulberries, I pur them upon the leaves with a thin knife; or I let them creep upon them of themselves, and I put them together into a woodden box s They fer upon the fides and smooth parts of the leaves, above and beneath. For the appendixes of their nofes do not hinder them. So I fed them from the end of April, or thereabouts, untill the eighth day of May, whereon I found they cast their first skin, which was a little black thining mouth, with a flender black skin. They are wont a little before, to pause on it, and to sleep; it is a renewing sleep, if it be a fleep properly. So foon as their old skin is cast, they appear greater prefently, smoother, and of a more shining black, for the hora ny covering of the head that growes under the old, is greater in proportion. When the skin is off, the rest of the body swells, as it the narrow270

narrownesse of the skin hindred it to grow to great before. The fame covering or skull of the head, when it is new, is white; but when it is confirmed, it grows black again, untill there be many changes. But as, before they put off their skin, they abstain from food, so a little after they feem to grow fluggish. For their mouthes are too tender to feed on leaves. Whilest they run over the leaves, oft-times one goes over another, and they willingly endure it, if they be not hurt too much. For then lifting up their little breaft, they will thake their heads, moving them here and there, and the Silk-worms do the fame. Food is given them once and again, and the multitude of them remains in a narrow place. When they have cat enough they grow fleepy. Then you shall fee them like Statues, or fuch as are taken with a Catoche, lifting up their mouths and breasts growing stiff upon the leaves. But if you cast in new food, they wake prefently and feed again. They feem to perceive the new leaves by fmelling them. For before they touch them they will raise their bodies toward them. Yet you may suppose that is done by some alteration in the feeling quality. The excrement of their belly is then small and black like to Gun-powder.

The 16 day of May some of them cast their skins the second time, fome flept, and the dayes following cast off their skins. They break near the head, and they slick to the leaves, the Caterpillars coming forth by circles moved in order. The little mouth also doth not fall away prefently, but hangs for a time about the new mouth. Then the black colour changern into grey, and the Caterpil'ars grow greater; but the breatt is white, and fo tull of juice, that it is almost transparent. But because they do not all change their skins in one day, if you please you may part the one that doth, from the other that doth not. But I left them together, and onely gave the new ones new food, the rest yet sleeping in their old clothes, and waiting for their change. For you cannot then cleanfe their stall, but you must defer it till they awake, and can be invited to new leaves. The third change began the 22 of May, when many of them flept, some of them put off their coats. It was no longer so black, but it was white, with the little mouth; and the worms came forth whiter, leaving their old skin: they were more rugged that did not stick to the leaves by threds; and those lesse, that did. For these skins were long and triangular hanging so high. Downward they rife sharp in the middle, which, I conceive, happeneth, by the top of the tail drawn thither, and lifting up the skin. The last extremity of this cast skin is like to a fishes forked tail. The Caterpillars once more freed, fed till the 25 day, and then Lobserved them to fleep a renewing fleep, and some new ones of them the same day. More slept on the 26 day, some on the 27; very few on the 28 and 29th dayes, that now the difference was greater. But those that flept on the 27th day, were changed the next day and fed again after a little pause.

With this fourth change of Catterpillars were made Silk Worms, smooth and white, yer with lead colour'd spots, and a mouth like a white

white horn. This is the hilt moneth of their life, and their first age. But fince in the third and fourth change of their skin, all things are more calily observed, and known, I shall somthing more accurately describe them. Catterpillars neer their third and fourth thange, have their skins fomthing more ill favoured, and fliffer than for the breeding of a Worm. Wherefore a foft skin comes up underneath, and the other falls off by degrees: and because they stick with some nervous bands on both fides, wherein there are some prints of spots, and these are not easily broken, they strive more to east them off, and therefore fleep two days almost, when therefore they come forth, their old horny mouth is parted from the new that comes up under it. The Worm it felf, when the cast skin slicks to the leaves, pulls up his feet and little legs, fomtimes pulling them up, fomtimes flackning them again, untill the hath pull'd them out of their old covers. In the mean time the skin on their fides is wrinkled, the skaly divided body being contracted into it felf, and extended again. So the old skin is loofned from the whole body. By and by the Worm goes foward, and draws the bands on the fides by degrees, the skales being thrust forward orderly, and then drawn in again, that at first you would doubt whether the VVorm would come forth before or behind. But this way are the bands broken. First you shall observe it to move forward neere the brest, for there the points depart, and you shall fee two in the cast skin, two in the worm. Moreover whilst the skales are drawn, a violet colour'd line as it were is in both sides of the cast skin, both by reason of the points and of the bands applied to both fides. In the mean while the tayle is wrinkled, the feet are freed, and n new worm creeps forth in half a quarter of an hour that hath an old mouth joyn'd to its mouth, as a Mule with a headftal, you shall fee also a white firing that it draws at the end of the tail, wherby the skin fluck to the back of it: when they are fast they strive but easily, but when they are loofe, they turn themselvs strangely on their backs, sides, bellies, till they can get loofe. Some of their skins cast, are round; some long. If you take it by both ends, you may draw it out to its full length, with the points of all the feet and skales, for nothing is wanting but the little mouth. The fourth skin in this change is farwhitef then the third, as also the covering of the head. These Worms are now Silk-worms, if you take good care to feed them, and govern them rightly; They are fat and white, but some more than others; for some seem yellowish, some almost lead-coloured. The feer and mouth at first are fost, wherefore they stay a while from touching of feeding on leavs. They flick fast to them, and by help of their tails, they can draw themselvs in and out. The hinder feet are thicker and blunter, as it were with 3, joynts, and in the middle a black spor, which I think to be the instrument they hold by, because the can at pleasure pull it in and out, as Cars do their claws. The forefeet do not only serve to go with, but to lay hold on leavs to help their body in passing, to draw the threds, and for other uses. The parts from head to tail in length, on the back are the head, the

bunch or wrinkled swelling of the breft, eight semicircular scales, and a three forked taile. The swelling of the brest neere the head is white in some, in some it is distinguished with two black and blew spots; which are divided with a yellow line, and in feverall ones it is feverally made. For in some the colour is more remisse and watry, and not so visible, in others it is more deep. But where that bunch riseth up, there are feen 4, knots, and the skin that is by them is wrinkled. The half Circles follow. They are joyn'd with a very thin membrane, as it were by a green line from blew. But the skales are white though in some of them there is somthing of a lead colour that shines under, and when the Silk-worms are ready for their Silkwork, they become of a spiceous colour, and all of them are marked with one spot on each fide, with a little circle about it. I faid there were bands, which appeare also in the Aurelia. Lastly the eighth scale is either distinguished by two black and blew spots, or moonlike semicircles, which two half Moons one respecting the other with their horns are there inferibed. But they are not equall in all, for fomtimes they are more conspicuous, somtimes more fading, fine, thin, lead colour'd, white. Hence there are two small Circles, and that which follows these, hath two knots, untill that which is next the rump, and raiseth the tip or point; In the great ones there are observed bunchingsforth in all the skales, but they are more eminent in the third skale. The skull is horny, but it is divided as it were into 3, parts, the right and left, which you would take to be marks of the eyes, and then the fetting together of the mouth, which are again diffinguished into the appendices and the jaws, wherein stand the faw-like teeth, The throatruns through all the length of the back, as farr as the props of the taile, upon which in the last skale is the end of the Belly. Also there are to be seen in the back, as far as the Plectrum of the tayle, some nervs moveable with a continual pulsation, as the heart and arteries use to move, and these nervs are yellow from white, and when they are drawn afunder, they discover a green throat or intestine. They stick to the plectrum, as if there were some passage for breathing, though they do not breathe. But it is no doubt but there is the Seat of life, though I discovered in the young ones a kind of red part, as I shall shew underneath, beating by it self alone like the heart, when that plectrum is cut, a moyst yellowish liquour comes forth, and the Worms themselves do not dye, but they stirr the more violently, and roule and turn themselves that you will judge that they are in great pain, the nervous principle being hurt. The dung of them represents their meat, for it is dry with fix corners long, as it were fet with eyes, whence one may collect the disposition of the gut or belly. They are green from their food, but because they are hard, and without moysture, they seem black, as those that are more moyst seem more green. Here if you mark you may diftinguish the males from the females. For the females here, as the Philosopher writes of other females are greater, fatter, moyster, softer, whiter than the males, which are more rude, more sported with

Will' Wan loots', land more flender. If you handle them you thall find theth all to be cold. They use ofr to rayle themselves on their hinder feet, and to ftand folike flatues. When they will feed they fasten on the sides and swelling veins of leaves ; contrary to Chireft pillars. I believe the appendixes of their mouths hinder them, were they afford fome help for their former feet to hold their meat with They car the leaves round, that they leave a round pit. When they are full they go afide; and they roll many together on a heap; Irhinik they are delighted with mutuallhear; you may distorn those that fleep, from those that cast their skin, by observing the pulsation in their back. Por the motion in those that sleep is equall to those that wake; but when they cast their skins, it is flower and lesse, that you would then think they were fick. Alforhose that sleep have but one mouth's but fuctions cast their skins, show a little mouth besides. But this is not in Silk-worms, but whilst they are yet Catterpillars! Some of them being four times renewed; have afilthy dark head, and yet they feed on Some do not increase much but continue small?

We faid before, that from May 25, to May 29, the fourth change is made in divers of them. From this time to June, the 7th, and 8th; o, to, 11th, they feed greedily, and grow fat and great and I was forced three times a day, and about the last days, four times a day to give them meat, or ofmera Bor when they are almost ripe fob Silk work, they cat more greedily, going with great courage to the leaves and biting off the nervs. You shall note that about 13 days passes between their fourth change, and their abstinence from meat wand provision to make their Silk. For the times answer one the other; from the 25, of May to the 73 of June, from 26, to 8, from 27, to 94 from 28, to 10, from 29, to 11, wherein I included the laft, except one fmall male, that fed longer. "About the last days, many begin to grow of a foiceous colour, which begins to appeare more evidently on the hinder part, and from thence to enlarge and go forward to the bunch of the breaft, though others are more, and almost all yeld low; fome remaine white with blew mingled with it. When they must dye, they go to the sides of the chest, nor will they bire the leaves, though they creep over them. Some fasten their threds at the corners, as if they were beginning the entry, others creep by the outfides, and feek here and there for a fit place to lye hid in. I thur many of them in, with paper-Coffins, which I dishofed of and fastned commodiously in some place, in which by gnawing and rending the fides, they do make a noise for a while white the threather wards by voiding a dry and moyft excrement of their belly, (for they void out both) by their hinder parts, they fastent them so fast to the paper, that you would think they were glewed. Afterwards for 3, days continually they make a little bladder, which being abiblived they lay afide their fifth skin, with their head and tayle? and are thatisformed into a nympha again. Some I did nor thut up in! papersy but disposed them in a wodden chest with boughs, and let Them thoose a nest for themselves; you shall observe thence, that Mm

they feek chiefly for corners and hiding places, and oft times many of them make their Silk in the same place, if it may be; some ordering them, right forward, others obliquely, others broad ways. If the place be too narrow, the wrong end of the skin is pressed together on the side, nor doth it contains perfectly Oval. One of these cases is longer, thicker, larger than another for the greatnesse and strength of the Silk-worm. They differ also in colour; some are Gold, Silver, Citron colours, and they are double. For some are greenish, some more yellow, though others call all these green. The sirst of them all, as I observed, was white, except some sew that send a yellowish tow before. Some of Gold colour have their inward coar white, nor is the yellow colour certain. For when the cases are unfolded in water, the silk growes white; and in dye, yellow, &c. But it is worth your labour to contemplate the matter of the silk; and what that is,

that yields a thred folong. When therefore I faw a great worm to wander, I put a line about his neck, and diffeded him. He lived flourly when his throat was tied, and felt acutely. For at every incision of his back, the knife scarce touching him, he would toffe himfelf violently, as if he would help himself with his mouth and forefeet. His skin being divided, I saw his long gut, as in a pike, the forepart was swoln and wide, the hinder parenarrower. On that gut did the nerves or beating arteries lye, with a continual fiftole and diaftole, and they ended on the plearum of sho tayl. When I cut off this, not onely a yellow clear humour did break forth, but the heads of the nerves, put themselves forth in the motion, and their stirring grew weaker. The Intestine hath a double coat, one thick outward coat, and another thin one within. The thick coat feels accurately, and it is near the throat covered over with much glutinous matter, which afterwards becomes matter for their wings, and of the hairinesse of the Silk-worm, as the external excrementitious moysture becomes the Aurelia, or outward shell. When the thick coat is pricked, the intestine comes forth, yet wrapt with a thin coat, and it contains much of the mear they ear the day before of green leaves. Also you may fee, when the skin is cut, and the thick coat of the Intestine, that moysfure will run forth in abundance, that is transparent, which I think is their blood, and by concoction is changed into filk, and the parts of the Creature. The head cur off, the beginning of the throat swells forth, and doth reprefour the blunt head of the Nympha. The gut being raken out with the forces contain'd in the abdomen, there are feen, like worms, fome glutinous clammy concretions, some yellow, some white, two very great, the rest small, so like worms, that nothing wants but a skin and life. They are fharp at both ends. They are fo placed in the belly, that both their points are turned toward their tail, and the body of them is doubled; you would fay it were their yarn folded together. If they begin to fpin from the points, it is necessary that they be drawn from the tail to the mouth. I think that the fmall whitifu pieces make weaker filk and towe 3 but the greates, the fronger. I

took out these worms, and I found that they dryed presently on the paper, and became hard and brittle, as Ox glew useth to do, and as the Tendons and Intestines of living creatures. The body of it, is all of one kind and transparent, that no man can draw it into so fine and small thred; but this labour must be left to the Silk-worm, as webs to the Spiders. The outward skin was white, mingled with lead colour; but withingit was drawn with a little skin black and blew in parts and partly with a shining gold colour as in a Herring. About the belly where the matter of the filk lay, the substance was pretty thick, confisting of nervous deductions, and a texture containing a white far, infolded with nervous coats; the like is found afterwards in the young Nymphs of Silk-worms; and they have a matrix and a genital member. Under that substance there are lead-colour'd branches let down into their feet like to tendons or chords. This skin, the matrix and genital member remaining, is put oft in weaving their filk, with all the parts that Rick forth: fo that the Nymph, and Butterfly that rifeth from thence, borrow nothing from the Silk-worm but the belly and gut, and the nervous parts that are in them. There remains in the gut and genitals a great deal of moysture. From whence afterwards growes the matter of the feed, and excrements of the belly. But the humour that is in the Intestine is yet raw, and is partly green, partly yellow, fomething thick, and elsewhere thin. If one part the fat from the nervous coats of the genitals, and smeer it on paper, when it is dry it will be like sewer, and brittle. You may compare it with milk in fishes. Therefore it is apparent, that in the Silk-worm these members are outward; Its threefold feet, the skaly joynting of the belly, the breaft, head, mouth, the anw, skin, tail, pletlrum; but within is the Intestine, the vital arteries, or the nerves, the white flesh of the breast, the genitals, betwixt which and the Intestine, is contain'd the matter for Silk; and besides those, the pannicles and nervous membranes, in which the parts are contain'd: Whether they have any heart, let others feek out: yet there must be some such Principle; and that not in the head, nor any where but near the breaft, whence the vital force is fent through the whole body: And this is manifest chiefly by motion of the nerves or arteries (as I may call them) in the back of the belly, not of the breaft, fo far as the hollow of the tail. I will speak afterwards of the nymphs and young filk-worms: Now I will add what I observed in their making of filk.

When they abstain from meat, and, as I said, they seek for a place to make their case; they have commonly about the end of their belly a green wan mark, the other part of their body is white with green, or wan, and of a spiceous colour. Then I saw them often make it as they went up and down, and to gape at the mouth, as it were Cows chewing the cud, when as out of their gorge they pull back their meat to chew on. Then it is likely, that the Silk-worms strive to the matter of the silk toward, their mouths; and to draw it your If you put them into a paper Costin, you shall hear them gnawing

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a whole day, and then into the bottom of this Ceffin like a Pryars cowl, they put down their exerement, first dry, like a black green pill or yellow. The last pill but one is commonly green, the last is yellow, and fanious. The number of this dung is, as their exercments abound. Fer I found in one paper, fometimes avolittle knobs, fometimes more, to 12, of divers colours, as black, green, yellow, and those not with bright spots, but round. When the last yellow pill comes forth, watry matter comes forth of divers colours, and a different confistence. For tome part is tnicker, somethinner, having fome red colour with yellow and green; yet fome of the fanies is bloody and blackish; such it appears on a clean paper, where you may fometimes see green polluted with yellow; sometime fortiewhat like chalk. In a glaffe, it is like to Lye. But that you may not doubt whether she voids it by her mouth or her belly 3 know, that the makes her filk onely out of her mouth, and her excrements by her belly. Yer they fend forth moysture also out of their mouth, when they are fick, or itrangled, or pressed. I found a Silk-worm that was at liberty, that put forth both these excrements behind. Some of them void forth much moysture, others but a little. They that void much feem to be the weaker, and to have gathered leffe filk. For many of them make small silk cases, but not all. It is doubtful what colour the filk will be. For I was often deceived by observing their heads, backs, bellies and feet. All of them do not make filk of the same colour; and oft-times the town and utmost coat is white, but the middle filk is gold-coloured. I thought the Silk-worms that were of a spiceous colour would make yellow; and the white ones, white filk; butthat was falfe. For both drew white. Once and again I judged right, that a Citron coloured female would make fuch a thred: yet fuch was also drawn by that filk-worm, whose belly was Leadcolour with white, and the fpot in the fore-head yellow. I faw a female also all white, that made white filk. In small and narrow papers, yet according to the Worms proportion, lesser cases are made, but thicket, with leffe towe; yet I observed little cases in the larger. They that are not shut up, but choose a place freely, they consume much thred in towe at random: whence the filk is much loft. For their cases are lesse, and not wrought so thick. It you will observe, you may know exactly the reason of their spinning in these things.

For when they have wandred a time, and have begun here and there to make their entrance of their work, (which they do by diligent bending of their bodies, whilest sticking by their hinder feet, they do variously move their head and their whole breast upwards, downwards, backwards, forwards, and on all fides, if there be a fit place to fasten their filk threds, which they do not by fight, but by touching; for they have dull eyes) then they draw forth their threds, and the foundations of their house, and that simple or manifold, as they find need of a strong foundation. If it be near the pavement, they stick to it with their hinder part; and if it be aloft, they hang by the fame;

or from bonglis, or any other place. For they turn their breast and head freely; and if there be need, they change the fituation of their hinder parts. Thus the entrance of their first work is made. Now the dry excrements are voided from their belly; the Entrance being finished, so that now the Silk-worm is secure and free from outward injuries: the voids the last dung with moisture, of which I foake before. The towe is oft polluted with this, yet it runs off to the bottom. When her bolly is emptied, the spinner ceaseth for a while, and purs forth her anus, as if the had a Tenafmus. Then the calls back the matter of the true filk, and continues that to her last breath, and till her filk work is ended. Then by degrees the thickens her threas from a large to a narrower compasse, so that it becomes an ovall figure, in the hollow whereof the may turn her felf. Her mouth, breaft, and forefeet are in a continued motion. The hinder parts Rick, yet are they translated to another place, when the makes the bottom or the top. They that make their cases in the ground or pavement, they from to fit on the naked pavement; but by degrees they weave threas under them, and in all parts they thicken the whole case alike, except in the point, to which in straight places they cannot teach. Therefore the frame of this is made more at first, but the bafis more in the end: Though this be not neglected at the beginning. Wherefore when the threds are unfolded, by untwisting them, the point is first made plain, and the inward coavis left, like a fingerhood. So they weave to the third day; and you may fee them working the fecond day, if you hold the case to the Sun. In paper hoods the base is made upwards, the top downwards and in two dayes it appears but thin. The third day it is thickned; and then the worm puts off her old skin, and becomes a nymph, which may casily be observed: for when they weave, yet they stick fast; neither is their dull falling down yet perceived. But when it becomes a Nymph, as if it were a stone that in, shake the case and the Nymph falls down. And this dull falling down endures untill it be changed into a young Worm. For then the empty place is fill'd again, and the Worm flicks to the case, seeking to come forth. There was one Worm I had, that made a case, whose entrance, amongst those were shut in a Paper, was a solid coat: in those that are at liberty, it confilts of threds disposed and drawn divers ways to and fro. Some have observed in one case two or three shut in; but when the place would be too narrow, that case cut was common to them three, and the Silk worms found within were become close together, fo that they feemed like to 3, fingers joyned, when they were all fet at liberry, they worked a little, but it was but a little. It is observable, that fome Silk-worms in paper made no Silk, but prefently turned to Nymphs; I think this befell them, because they fed on lettice, (yet not to them all)or to fuchas had too little meat given them, of that were fick and could not gather matter of Silk, which I suppose is made of abundant blood like fat, and laid apart. Other firange things happen; whereof in their proper place. All their cases are long and

to the Eighth Classis.

oyal. Yell law a white one almost exactly round, macit had a basis spilaricall on both si les without any point. It was small with is fore-house, but yet mick as it should be. But the filk-worm in that did not go to be a Nymph, nor a perfect young worm, as I Thall they by and by. It feems a question whether they draw forth the filk out of the end of their belly, or out of their mouth, though they alwaies distribute it with their mouth and their forefeet. It is no imall argument, because that near the props of their tail at the bottom of their belly, a chink is feen, and both ends of the filk-matter in the belly lie to that place: Alfothe voiding of the Excrements at the beginning of their working, confirms this. For as when a woman is to be delivered of a child, what faces there are in the bladder and the right intestine, that is voided and pressed forth; fo we may think the filk matter striving to come forth in the Silkworm doth the like. When the begins to labour, her belly swells more; from the belly begins the maturity, known by the yellow. neffe: That comes first out, as being first ready. Also Caterpillars and Silk-worms, flick to the pavement, with a hairy down about their feet. Some are observed to weave on their backs, that the filk may be drawn out of their belly, and may the more easily be ordered by their mouths and feer. This may be alledged for the first opinion. But stronger arguments prove this to be false. For you may see with your eyes, that when the belly rests, threds are drawn out of their mouths, and they sticking by their clamminesse, are drawn out by degrees, by turning back their necks: And therefore Silk-worms do not onely to draw their threds lying on their backs, but lying alfo on their bellies where yet the whole Worm turns her self freely. Then it cannot come forth by the tail, nor by the chap under the tail, For from the place of the filk to the Intestine, there is no passage; and the chap of the tail, that notes out the genitals of the young worm that shall be, is covered with a skin, Moreover, before the silk comes forth, oft-times the filk-worms do cry and mutter, as if they were ready to vomit, drawing the matter to their throats. Nor do they (well about their tails, but about the middle of their bellies; Also in a Cessio of paper, when no thred appeared on their feet, I faw them draw it forth with their mouth onely, and to fasten it; and the 2d. of June, when I carnefly observed one making its case, I drew the beginning of the thred out of the worms mouth, when it was wet, to its full length, the belly and the feet having no filk upon them: So Caterpillars hang by the mouth, their thred coming out there. Nor do Spiders and Palmer-worms on trees make their webs otherwise, And so much for this question.

When the Cale is made, the Silk-worm is changed into a Nymph, and the fleeces are taken, first choosing what males and females you please, for preservation of their kind. Some say you may know their lex by the colour of their case; some by the bignesse; And this is some argument. For, because semales are commonly the greater, they make also the greater houses. Yet sometimes we are deceived;

for a firing male may make a greater cale than a weak temale! To Have feen them both of a bigneffe, and I have feen females fed An other places, to make far leffe houses than my males! Wherefore! the fighs must also concur, observed in the filk worms themselves of which before. The other cales are cast into scalding waters that the worms may dy, or they are choaked with the hear of an ovenil after the bread is taken forth, taking care they burn not. Then taking away the Towe, maid-fervants or fuch as can labour, are ready, who may loofen the beginnings of the threds; which being found out; many of them are cast into a bason of cold or warm water; and the fervant Maid fitting ready with a drawing inftrument, doth contimually roll down 30 or 40, or more threds joyned regether. If the thred break any where, the fellow labourer must feek for the begining of its and give it again to him that unwinds it. That is continued untill they come to the inward coat, which being very difficult to unwift, it is dryed and bull'd into towe and kembed. When the threds are thus untwifted, they fend much dust into the Ayr, and you may fee in the bottom of the vestel fome filth that fell from the filk. I tryed carefully, whether I could with one work unwind a whole case not breaking it, taking away the Towe, which by read fon of its various foldings together, weaknesse, and divers principles; cannot be untwifted at once drawing. I obtain'd my desite onely in the middle of the filk; for that which is before the house is wont to break cafily, but the middle holds beft. The last coar, by the weight added to it, (for then the Nymph talls down) was unfolded by the with great care to the thin skin, which was feared equall to the thumbs nail. Those cases are best untwisted, whose baffs and top answer diametrically 3 but those are harder, whose top is bound, and they that are crooked or bunched. For here the thred flicks and is rangled, that it will hardly yield without breaking. Fiff, the point is made bare, and untwiffed all to the middle of the cafe. The thred of one filk case was as long as this line here drawn, when is was drawn forth 7000 times, and in one ir was above 8000 times longer: yer they are not all of one thicknesse and greathesse; which may be feen, by drawing them afunder into little skins. For forms fleeces I drew into 12, fome into 8, more of leffe codes,

The wild Silk-worm hath an entrance, a fingle coat, and form-thing a thicker case; wherefore the thinner cases easily yeeld to the singers pressing them, but the thicker will ress. When the top harry a hole almost to the middle, that the Nympha may easily fall forth; she falls with her cast skin, wherein there is both her head and alk her feet. Somtimes commonly the head of this old skin is over against the top of the case, that we may understand that it was cast off, whilst the Worm when the case was perfected, dorn bend and turn her self upwards through narrow streets. The Crown of the Nympha is toward the basis, the tail toward the top; and being that the Silk-worm is above twice as long, the Nympha is contracted toward she basis, the tail toward the top; and being that the Silk-worm is above twice as long, the Nympha is contracted toward she basis, the tail toward the top; and being that the Silk-worm is above twice as long, the Nympha is contracted toward she basis, the tail toward the top; and being that the Silk-worm is above twice as long, the Nympha is contracted.

cond finger of a man. She is alive, and gives tokens that the is to. by the moving of her top or tail when the is touched. If you regard her outward forms, you would fay the is a fealy Worm, and her head is covered with a bag. The scales are dark coloured, as if they were flaind with smoke, and they are eight in number, as farr as the centines of the Crown: On the fides of each of them there are two round points, out of which the tendons or bands appertain to the young Silk-worm. On the Crown there is a white foot, as if the mouth of the young Silk-worm shined through it, with three littles black spots. After this on the foremost part there are prints of feet and horns, and on the hinder part toward the fides, are prints of wings, If you will observe the inward parts, the fourth day before it is changed into a young Silk-worm, after it hath lain hid, you may open it, you shall see nothing else but a common empty place, and in this only three distinct humours. One of a watry thin substance, of a yellow colours This is equally diffused through the whole space. The other is red, like blood; This slicks in the upper part, where the head and brest will be; you would judge it to be the rudiment of the heart, because I saw the like afterwards in the young Silkworm, a certain Masse, that moved of it self, if a heart may be attributed to this creature, The third humour is white and yellow; and it is like to a hen egge, cast into a hot water and run about; or like cheesecurds, if you add some yellow to them. Where you see the prints of wings and feer outwardly, there lies hid a phlegmarique clammy matter, firsto make the membranes of, you shall ke no distinction of parts ; I think the life is in the nervous coat, that is next under the outward shell. For the Silk-worm in that part was exceeding fentible, and had a motion of the heart and arteries; you would call this a little bladder fill'd with humours, which yet compared to the Aurelia, after the young Silk-worm is crept forth, is far thicker, and you would fay it were a shell cloathed on the inside with coats and a tenacious glow. After this, is the down of the young Silk-worm, the wings, feet, skin, and the other outward parts. So the Silk-worm passeth into throat and belly, for whose sake only it was demin'd there. Yet here appeareth no green colour which was much in the intestine of the Silk-worm now ready to spin. Part therefore was voided before the case was made, and part was changed into some other juyce. In the tip of the taylethere was also some clammy matter like to the rays white of an egge. I thought it to be the rudingent of the genitall partie For with that the matrix & spermatical Vessels were cast off, the heginning whereof is seen also in the belly of the Silkworm. The humours taken on a clean paper and dried, were stain'd with black, as if you had mingled ink with them, yet the tallowy substance remain'd white, and in some places a red and yellowish spot appeared with a white spot like chalk : whence we may: collect that that blacknesses was only from a watery yellow humour which only shined on the paper where it stuck thick, like to shining, inh. The rest of the Nymphs, partly deprived of all Silk, and naked $bu\phi_0$

partly thut up yet in a fingle coat, partly fafe in the whole Silken eale, I handled with no other care, but I only putt them up in a box; and fer them in my window, yet I distinguished them into divers Cells, such as I thought to be females, and such as I thought to be males, and I was not deceived in more than one only. So from the first thutting them in, untill they came forth, there passed 26, or 27, days, setting them in my study to the afternoon. Sun in the heat of June, as it was very hot in 99. For the female that was buried on the 11, of June, came forth a young Silk-worm on the 8, of July. A male that began to spin on the 9, of June, on the fifth of July became a butterfly. The same day two females came forth out of two greater white cases, and one male from a lesse yellow case. On the fixth of July in the morning (for they all come forth in the morning) a male came out of a white case, he was dusky colour'd and rough; and a white female very tender, with a great belly, and with great wings, came out of a case that was yellow and greenish. Also before on the fecond of July, a male crept forth of a Gold colour'd case; and a female out of a whiteone.

These began their Silken case the tenth of June, When young Silk-worms are ready to come forth of whole cates, when you shake it, you shall find no more a dull weight; and then the aurelia opens about the back of the thorax; after thata great deal of cleare humour that is white is powred out of the mouth, and the place grows wet, where they will make their passage. This way they came forth with labouring and striving. I saw a semale coming forth on the 8th, of July; the tent fo much moysture before her, that a great drop fell into the box. Then her head appeared, the striving with her feet within. By degrees, after her head, the put forth thefe; and presently the stood upon the pavement with them, and by striving by little and little, she drew forth the Circles of her belly; that when the first was drawn forth, and the would draw out the fecond, the drew up all her foreparts, that to the mi ht pull forth the next roundle; yet it is very like, that by that contracting of her felf, the hole was made wider that her belly at last might come forth with lesse paine. Her divers turning fide ways, helps for this also. In the meane while the thicker young Silk-worms and fuch as have more moysture in their bellies, presse somthing forth when they strive, and they do besineer the case where the hole is, both infide and outfide with a plaister-like clammynesse. They that labour lesse and are slenderer, leave but little. Then you shall see the whole heavy case, somthing wet by the moysture comes forth of their mouths, and made easy to passe through. Sometimes they are wont to be quiet, and of times to inflate their bellies, to draw it forth and draw it in againe, as if they did fet their dissoynted limbs, and put them in their true places. And they do fodraw forth and loofen the circles, that the joynts flick up fill'd with a yellow humour; as if they were inflated. You shall fee the naked Nymphs, when the butterflye is perfect within, two or three dayes before to move themselves, as if they would break the bands by which

which the young Silk-worm is tied to the Aurelia, it I then opened one of them with my knife and nailes, that I might fee the congruity of the contward with the inward parts. That I did, the fourth of July, when as then about 20, days were passed from the time of their making Silk, The first skale being removed, about the beginning of the little breast on the backside I saw the tender upper circle of the belly; it was skinny covered with a moyst down, yet so short and made plain that the down could scarce be seen. Under the place of the side wings, which in the Aurelia you may compare to the Shoulder blades. two true wings of the young Silk-worm did lye hid, joynd together, and one laid upon the other. They were all short and tender, as not being yet perfect in quantity. Between the wings of the thorax, the latter knob appeared, fenced on both fides with long hairynesse, but not yet covered over. The wings and this red part being dispatched, I came to the upper lines bending downwards; under these were their horns. But under those that followed, the feet on the brest did lye; being bent obliquely and directed to their belly. Under the white spot on the Crown of the Nympha, the hairy Crown of the young Silk-worm, and the hinder part of the head are placed; next to which lyes the print of the eyes, like to two black spots, which are divided with a cleft like a Lyons lip, the whole belly is like to white paint. The hairs of it are very wet, and appeare smooth, They have roundells, as well as the Silk-worm and the Nymph. But I did not open the whole young Silk-worm, but he by his firthing pull'd himself forth of the rest of the Aurelia. I saw with what labour he unloofed the bands of his belly, which like white cords do hang from the points of the circles, and are left in the empty Aurelia. The fundament sticks also fast, wherefore the tip of the Aurelia is contracted toward the breft inwardly. The male was with hairs and wings imperfect. I left him in the box. He lay still, till the next day. Then he grew white by degrees, and the downynesse was seen more exactly. The wings also grew, and then he grew more jocund, and being admitted, the third day he copulated foutly. What these young Silk-worms are, appeares by what we now fay, and did fay before : we must add this; that the belly in the Aurelia is more contracted, and when it comes forth it becomes greater and longer by a third part, by distending and inflating it. In the Aurelia, there is a threefold rupture from the Crown through the back of the thorax, and there the young Silk-worm comes forth. The other parts are entire.

All the rest of the young Silk-worms being come forth before the 14th of July, two cases remained whole, as if they would yield nothing, though they were very thick. One was a small round male; she other a female twice as long, and pretty large, a little about the back the worm was raifed with a little bunch. The colour of the Towe of both was white; but in the Citron-colour'd, the filk was greenish, though it were a more watry colour in that. When I divided the round Cossin with the edge of my knife, a carcasse appeared

outwardly, half a Silk-worm, half a Nymph. The forepart was a plain Silk-worm; the latter a Nymph; for it had, not put off the whole skin, but onely the latter part, which was next it in the cale, The carcaffe lay crooked, so that the foreseet in the breast touched almost the first pair of the hinder feet. For here between the first conjugation of the hinder feet, and the second; the skin was broken: So that the Nymph was covered with her former skin, wherein was her head and breast with 6. feet, and part of her belly with the two first. The skin and the Aurelia being removed, within there lay, a perfect male young filk-worm, and it had been living, as; appeared; for that firiving to come forth two dayes before I made Infection, he had wet the cale with his moysture; and the 19 of July, when I perfeetly freed him, he shew'd clear signs of motion in his belly and feet: The cause why he could not clear himself and come forth, was found, in the close sticking of the Silk-worm's skull, and of the forefeet, the coat being fastned to it by nature. Therefore though in the back of the Thorax he had made a gap both in the Aurelia and the cast skin, yet could he not pull forth his head and feet; so he fainted

to the Eighth Classis.

by degrees.

Here I observed the policy of Nature: For when in putting off the cast skin the foreseer are plucked off, and the hinder seet depart alfo; yet there are prints left, under which afterwards others grow up. And the fins of the wings were inferted into the holes of the old filk worm, and the whole head of the new filk-worm, with the horns of the head were flut in a covering. This was the male. The Female quite dead, seemed yet more monstrous. The Silk-work being finished (which was a great silk case, and as long as two joynts of ones little finger, but the males was thinner a great deal;) The filk-worm frove to cast off the skin, that was white, light, and fhining within fide, but outwardly hairy and yellowish, and he had drawn forth his whole back, that bunched forth extreamly, his foreparts being contracted circularly; but he could not free himself of the little mouth that fluck too fast. Wherefore there you might see the head of the cast skin, the crown of the Nympha, and of the Necydalm joyn'd together: which conjunction kept the skin upon the belly, that it could not be totally cast off, and drawn forth. Wherefore it stuck so with the point of the belly, as if it were shut into a sack, and bound about the head; but a hole being made on the backfide, it might have drawn forth the back, but it would yet have fluck by the head and fundament, fo lying crooked and dead. The cast skin was thus, Our of this also stuck forth the Aurelia, as concerning the upper part. Again, out of the Aurelia almost the entire young Silk-worm had wrested it self; breaking the shell on the back-side, and in the wonted place, but the head fluck fast not to be pull'd asunder, as also the outmost parts of the belly. In the belly put forth was feen a grear number of yellow eggs. For the female presently within the Aurer lia, perfects her Eggs in her matrix, but they are unfruitfull till the

male beforinkled them. I faw one lay eggs that had coupled with no male. Hence it was clear, how Nature puts off the old skin With the form of it first, and then passeth into a Nymph; the Airelia whereof being again put offout comes the Necydalm. This was a triple formed Monster, worthy to contemplate of. In this also you might . observe the Autelia, on that part the wings were marked, to be black and dark, as if it had been in hot smoke; then how souch the female Netydalus had striven to come forth, was plain by the eyes that stuck out in the diffunces of the skaly circles. Sometimes the circles of the belly stick together by contiguitie, a thin skin coming between them. But in this the circles were so disjoynted, that the girdle of the juncture was larger than the circle. The top of the belly of the cast skin, and of the Aurelia were transparent against the light, so that you might exactly discover all about it. The end of the Nerydalus came as far as the middle capacity of the Aarelia; the Necytalus was hairy about the back, though imperfectly, as also the wings were not yet of their full bignesse. And thus much for Monsters.

When the Necydalus is lufty, it is full of life, chiefly in the breaft. For when the head and tail are cut off, it will move the wings frongly. and run with its feet, and that till the next day or longer. The female being out in the belly, thews her matrix full of Eggs; that when 400 are laid, there are more behind. It seemed to be wrapped in a very thin coar. There appeared also some nervous pipes, like the passages of the guts. In the middle of the belly a little bladder was feen, conthining an earthy juyce, that was yellow or ruflet colour. This bladder of it felf had a continual systole and diastole. I thought the principle of life was there as in the heart. About the neck of the matrix there was a double white nervous knot, like to the bladder of animals; it was hard and shining, and that within the belly. I shall Tptak of the dug-like processions afterwards. There was one little knot that was bigger, and another that was leffe. The neck of the matrix is like to a pipe; to which being full of juice, there are joyn'd without on both sides two yellow knots like to brests. About the neck there is a circle with horny teins, that are broad, and blunter on the top, with which the takes hold of the genital of the male. The break is flethy. The head is membranous and horny. The horns rriangular, with a white back sticking up, but the wings are let down on both fides, to make the Triangle: If you cut them off whilest they are alive, a kind of transparent juice comes forth of the back, as out of a pin-feather, and there appears a hole within. Thus I found the female, which I opened whilest the was living. When The was dead, there was nothing found in her belly but a notable cavity of her belly near to her breaft; and then that vital humour in the bladder, though it now was no longer living; after that, the reliques of the matrix that was emptied, which were nervous and membranous. 'The upper parts of the male agree with the female. If you open his belly, you shall find much red matter within; and befides that, a tallow matter full of nerves, to which the genical paffage is fastned. He hath a peculiar genital, wanting other things that belong to the female.

The History of it is this; Under the tail environed with a long. Down, there is a notable hole under a membranous circle as hardes horn, that is divided as it were into two teeth. In the middle of this compasse there is the three sorked neck of the general pair; I with

the extremities of it that are horny,

About this there are fer reddiff prickles (all the horny processes are ted going toward black) the two uppermost are like hooks, of bended back like ankers, or like Goats-horns bent backwards. The fingle one beneath them is strait. These prickles are next the neck of the member. A little beyond in the middle of the compasse, there are three other small pricks, with so many bands he lays hold of the maintain of the semale, and draws it to him; and holds it so salt, that if you would pull them one from the other, you would societ believe the joyning together of the belly, and the circles should break; that the copulation should unloose, which I often proved.

Also from hence you may judge of the constancy of their copulation, for I saw them sick fast together whole Summer days, and at night, I know not at what hours, it is probable about morning I they parted as under, and in the morning I found many Oval little Norms, and them lying quiet one from the other, yet they will sick together, being cast into cold water. When I sprinkled salt and pickle of the joyning of their tails they held salt; nor were they parted with wa-

cer of vitriol added.

I drencht the male into the water, and I let the semale wand dry on the brink of it, casting both vitriol and salt into the water, yet he lived and held his copulation. Then I lest him so all night in the water, in the morning some hundreds of eggs were in the bortom of the water, and the young Necydali swam alive. I cut off another males head in copulation, yet he parted not. I divided his brest from his

The head and breft, as of divided flyes, live long; but the breft longest. This male cut as and divided flyes, live long; but the breft longest. This male cut as and in copulation, had in his belly also; a yellow reddish matter, with some intestinal substance that is yellowish, and skinny. The male was bred the fourth of July, and died for weaknesse on the sisten, and being opened he had nothing else in his belly. Otherwise the Necydale will live 7, or 8, or more dayes. For, as I said, he is constant, so that when I broak with sour strokes the beginnings of the wings and the brest, and then the belly sometimes, yet it lived as not hurr, though the Spirit were dissipated at length; the next day for the most part, if they be so dealt withall, they dye. The male horly desires copulation; after a little stay, when he is come forth of the Awelia, and that when he hath sten on moysture; and this happens also in the semale.

287

The male that is lively after the first dayes copulation, when he hath rested at night, the next day he seeks for the same semale, or any that hee can meet with, so that he will couple three or sour

The female also admirs of the male as often, though she do not alwaies lay eggs. For the begets no eggs, unlesse the have fome within her suthough the copulate with the male. So foon as they uncouple, she presently lays her egs in order one after another, vou shall fee them thrust forth with striving and contraction of her belly, and be shut forth from the neck of the matrix put out, fo that it will touch the pavement. I reckoned above 400, from one female, and almost 400, out of others; and these being diffected, had yet many more in their matrixes. What therefore Vidas writes of hundreds, that may be understood of lean little Necydalls, such as I see proceed from want of nourishment, others were almost three times as great. Some males do void their dung once before copulation, and again after their second copulation. Somtimes the males, loosed and not yet fatisfied, will hinder the female that is about to lay eggs, and couple again with her, though the female copulates with him by force, and defires by contracting her belly, and by striving with her hinder legs, to be loofe. So one before copulation laid 17, after she had once coupled and was loofe again, 194, and then coupling again, after four hours copulation, she, laid 245, then the male having an appetites the cast moysture as our of a spout, and coupling again, and being freed, she laid above 20, eggs.

Those Egges that were laid on the fourth of July of a Citron-colour, on the 7th grew red, and after that, Lead-colour'd. I kept them in a box behind my Window, exposed to the afternoon-Sun. Those that were barren did never change their colour, but onely,

fank down.

In the Necydalls that are loofe, you shall sometimes observe a trembling motion, like as if they had an Ague. Yet I fay not, that they are aguish. But I think, that shaking comes by the alteration and promotion of the seminal matter, the vapour exhaling from thence, and rending the nervous parts. The last Necydale was a small one; and on the 24th of June, weaving a small case between two Mulberry leafs, he came forth the 13th of July, in which besides that, he had made a very small Silk case; This also was observable, That he came not forth of the basis of the case, but made a hole in the top, contrary to all the rest. Yet he was a male that seared not to copulate with a semale that had thrice, been coupled with a male before, and was almost dead. When he had twice copulated, he afterwards fainted. His wings were painted otherwife than the others were; for whereas the others are distinguished with lines, long and broad wayes, as with welts; this had four fuch Lead-colour'd lines broad wayes; but between the fecond and the third, toward the outyvard outward borders of the wings, there was a small circle coming between, not exact, but wan, with a white spot in the mid-

But indeed Nature is so ingenious in this Insect, that when you have observed and writ many things, you have more to observe still. Therefore I conclude this History; and leave the rest to those that are studious in the Secrets of Nature.

OF

OF THE DESCRIPTION

Of the

Wonders of Nature.

The Kinth Classis.

Wherein are set down the Wonders of Fishes.

Plin. 1. 9. Natur. Hist. c. 2.

He common opinion is true, That what foever cometh forth in any part of Nature, is to be found in the Sea; and there are many more things, which are to be found no where else.

CHAP. I.

Of Hornback, Sturgion or Elops, or the Dace or Groundling.

He Hornback Fish hath a chap under her belly; wherein Rondeletius saith, he saw her eggs ly. For cutting that sish at the beginning of Winter, he sound many eggs in that clest. Yet after she is delivered, it eloseth so saif it grew together; which is no wonder, as may be seen in the English Pikes. It is covered in so hard a shell, that a sharp sword can hardly cut it. The Sturgions when they are taken lament their destiny, and seem to intrear; and leaping in the nets, strive to free themselves. Oviedus and Plutarch say, that with their tharp backs they will cut the line, and free their captive fellowes. The Dace of Phalera is so soft

Chap. 4.

and fat a fifth, that if it be held long in the hand, it will melt; or if many of them be carried in Ships, they will drop far, which is gathered to make Candles with. Apitius, as Suidas reports, fer the pictures of these Fishes, with Rape roots cut into long and slender pieces, boyl'd with oyl, and strewed with pepper and salt, before Nicomedes the King of Bithynia.

CHAP. II.

Of the Ecle.

LI know, that Eeles are found in many fresh Waters; yet Nauclerus writes, That in the Danube there are none; but in the Rhein there are. Albertus makes the cold of Danubius to be the cause thereof; and this proceeds, because it runs before the mouth of the Alps from West to East, and receives the greatest part of its water from thence. These onely, contrary to other fishes, do not flote, being dead, Pliny. The reason is given by Aristotle, from the small belly it hath, and little fat. The swimming of Lampreys, Congers, and Muranas, that abound with fat, confirm this to be true. They are so lusty, that being devoured whole by a Cormorant, they will come forth of his guts, nine times one after another; and when they are grown weak, then he retains them, Gefner. Held in a mans bosome, especially great eels, will twist about a mans neck and choke him, Cardanus. On the Land they dye, if the Sun shine on them; otherwise very hardly, as you may see them living when their skin is pull'd off. Athenaus, Alianus, and Plutarch do testific, that in Arethas of Chalcidon, there are tame ones, adorned with ear-rings of gold and filver, that will take their meat by hand. Nymphodorus reports the same of the River Elorus.

CHAP. III.

Of the Whale, and the Barbel.

Fig He whale is the greatest and chief of all Fishes. Pliny calls this the greatest creature in the Indian Sea, which was four Acres in bignesse; Massarius interprets this to be 960 foot long. Nearchus faith, that there are whales of 23 paces in length, and reports, that in the Island before Euphrates, he saw awhale cast forth of the Sea, that was 150 cubits. That Whale which was taken in the Scald, ten miles from Antwerp, Anno 1577, on the second day of July, was of a blackish blew colour: he had a spout on his head wherewith he belched up water with great force: he was 58 foot long, and 16 foothigh, his tail was 14 foot broad; from his Eye to the top of his nose the distance was 16 foot. His lower chap was 6 foot, of each

fide, armed with 25 Teeth, and there were as many holes in the upper chap where there were no teeth, yet so many might have stood there: The longest of his Teeth, was not above 6 thumbs long. A whale not long fince was taken at Sceveling, a Village near the Haque in Holland, was 60 foot long. His head was about 3. cubits long, I faw him there. Platina observes, that the Barbels eyes are venomous, chiefly in May. Antonius Gazius found it so. For when he had eaten but two bits thereof, at Supper time his belly was fo inflated, that he looked as pale as ashes, he was distemper'd all over, at last he fell into the cholerick passion. Nor did these symptomes abate, rill the eyes were voided upward and downward.

CHAP. IV.

Of the Garp, the Clupaa, and the Conger.

He Carp, faith Gefner, hath a little white hard stone in his head, near his tongue, and in the middle of his head a thick substance like to a heart, that is flexible while it is new; but afterwards it grows hard. Sometimes it is found 20 pound weight. Jouius faith, That there was one found in the River Latium two hundred pound weight. When the Female finds her felf great with young, when the time of bringing forth is past, by moving her mouth she rouseth the male, who casts on his milt, and then she bringeth forth. In Polonia, broad Carps being put into a fish-pond by one, when the waters were frozen, though he fought them diligently, he could not find them; when the Spring came, and the waters were thawed, they all appeared, Gefner.

Clupea is a great fish. In Sagona a River in France, when the Moon increaseth, it is white; but black when it decreaseth. When the body is but a little augmented, it is destroy'd by its own prickles. In the head of it there is found a stone like a barley corn, which when the Moon decreaseth; some think it will cure the quartan Ague, if it be bound to the left fide, Calisthenes Sybarita, citante Stobao. Congers contain their off-spring within them, but it is not equally so in all places, nor doth their increase appear in a fat grosse matrix, but it is contain'd in it, in a long rank, as in Serpents; which is manifest by putting it into the fire: For the far confumes; but the eggs crackle; and they leap forth, Aristotle 6. Hist. c. 17.

CHAP

292

CHAP. V.

of the Dogg-fish.

Fill He men of Nicea, faith Gellius, took a Dogg-fish that weighed 1 4000 pound; a whole man was found in the belly of it. Those of Massilia found a man in Armour. Rondeleum law o'c on the thore at Xanton, the mouth and throat were fo wide that they would take in a farman. Bellonius faith, that each fide of the mouth had 36, teeth, wherefore some think the Prophet Jonas was swallowed by this fish : and that this is that they call the Whale, it being so vast a creature. The same Bellonius writes, that this Fish at divers times brings forth 6, or 8, young ones, and fomtimes more, each of a foot long, perfect with all their parts, and oft times the young one coming forth there are eggs yetraw in the matrix, and some hatcht, lying in the upper part toward the midriff; and some of them are contained in the right turning of the matrix some in the left. In her Whelps, this is chiefly wonderfull, that they were covered with no fecondine, and they are fed from some part of the Navell that hath Veins. For since faith he, she doth not put forth her eggs, and they are tied by certaine bands to the matrix, they feem to need no other coat than the Amnios; whereby the Whelp being now formed, and by a chank in the sternon, that passeth between the fins that are toward the gills, it receiveth nourishment from the matrix by a band, or the middle of it, that is so slender, as a Lute string; But this nutriment by that slender firing is carried into a little bag, which you would say were the stomach, which is alwaies full of it, like to the yolk of an egge: the position of it is in the middle of the belly, and under the two laps of the Liver. And that this is true, if you cut a Whelp taken out of the dams belly, through the belly, you shall find the true stomack of it to be alwaics empty. For it takes and devours nothing by the mouth. But you shall see the right intestine to swell with wan colour'd excrements. If you take the young Whelp alive out of the dams belly, and do not hurt him, but cast him into the water, you shall see him to live and swim presently. Rondeleins observed the eggs to flick in the middle of the matrix toward the back bone; and when they increase they are translated into both the Sinus of the matrix. The forme of the eggs is like to pillows we fleep upon under our heads; out of the corners there hang long and flender passages which Ariflotle calls hairy porcs, and they are rowled up like Vine tendrels; if you firetch them out at length, they are two cubits long. When the shell breaks, the young ones come forth,

CHAP.

CHAR. VII.

Chiap. 6.1.) Of Dracunculus.

Of Dracunculus.

Racunculus is a fish with a great head, a compacted nose sticks ing forth, a little mouth without any teeth, without any opening at the gils; but in the place of this, above the head there is a hole on both fides, wherewith it takes in and puts forth water. It hath great eyes fet above the head, the head-bone ends at the prickles that tend to the tayl. The Fins are exceeding long, confidering the body partlySilver,partGoldcolour'd. Those about the Gills, arcGold-colour's ed, and Silver colour'd in the root; These that are in the lower part ; and next to the mouth, are longer than those that are next to the gils. On the back two stand up; the first is small, Gold colour'd, distinguished with Siver lines; the latter is very great on the middle of the back, not much unlike to butterflies wings, and is made of five bones like to ears of Barley, and a membrane. The former bones of radii are the longer, the hinder are the shorter, contrary to what it is in the membrane; which being as it were woven between all the distances of those radii, increaseth by degrees. The same also, is divers; for it is distinguished with Silver lines fet between two black lines. This is hid in the middle hollow of the back, as in a sheath. There is also another Golden colour'd membrane from the tail to the Podex; excepting the fringes that are black.

CHAP. VII.

Of the Dolphin, Exocutus and the Fiatola.

He Dolphins see so exactly, that they will see a fish hid? in a hole, Oppianus. They are so swift that Bellonius obferved one of them to fwim faster than a ship could run under fayle, before the wind that blew strongly. Some make their Fins' to be the cause of it, others their light body. The samous Bandarcius. thinks the membrane between their foreyards being extended, ferves them for fails. They love one the other fo well; that one being taken at Caria and wounded, a great multitude of them came to the Haven, and departed again when he was fet free. When the Marriner's whistle, they will stay the longer about the shipbut when a tempest rifeth, the credulous Greeks, fay, if any man be in the ship that hath killed a Dolphin, they will all flock thither to be revenged. When then play on the calme Sea, they forethew which way the wind will blow, and when they cast up water, the Sea being troubled, they foreshew a calme. Plin. 1, 8, c, 35. Thom we thinks that exhalations rifning from the bottom of the Sea, when a ftorm is at hand in Winter! is the cause of it; and he thinks that the Dolphins feel heat thereby; and to break forth the oftner. But fince more fishes also perceive a tempell coming, Rondeletius thinks that they are affected in the water with the motion of the ayre, as those that are sick are wont to be, when the South wind begins to blow. Exocatus lives long on the dry land. The cause is, the plenty of ayr; which being he doth nor draw it in, too largely, he is not choked by it. Hence it is that an Eele will live a long time under ground, Rondelet. Fiatola is a broad plain fish, with a taile like to a half Moon, a fleshy tongue; contrary to all other fish, he hath no fins under his belly, and he is wholly without them. His Liver hath but one lap, without any Gall, his stomach is made like the Letter V, the lower part of it ends in a point; and there are so many Appendixes of hairs unto it, that they cannot be num-

CHAP. VIII.

Of Glanis and Glaucus.

Riters report of Glanis, that it is a mighty and terrible fish, especially in the River Tissa that runs into the Danube. Hee rifeth so boldly that he will not spare a Man. It is publikely said in Hungaria, that there was found in the belly of one, a hand with rings upon it; and peices of a Boy that Iwam in the Danube, that was devoured by it, Comes Martinengus. Gesner saith, he heard it of a learned Hungarian, that the same was taken in the River Tiffa; it was 7. or 8, cubits long, and was carried in a Cart. This had layn hid in the River 16, yeares, neere the Kitchin of a Noble man; at last it was caught with a hook, when it had young ones to look to: when the found her felf taken, she leaped forth; the sishers ran after her two miles, at last they wearied and took her, and carried her to a Town called Nadlac. There was in her belly a Mans head, with his right hand and three Gold Rings upon it. The Glaucus hath a spongy Liver distinguished into two laps, the left is the larger. From the right lap there hangs a little Gall bladder, from a thred three fingers long, fo great as a peafe; and it hath in the bottom of the ftomack a kind of Apophysis, not to be seen almost in other sishes, besides sive others in the Pylorus, that fence the stomack about.

CHAP. IX.

Of the Herring and Hufo.

Hat the Herring lives by water, the Author of the Book of Nature M. witnesseth; taken out of it, it will not live, as experience testifics. In his belly there is nothing found, for it hathonely one hungry gut. They fwim together in fuch great sholes, that they cannot

be taken for multidides. When they feelight, they fwim in Hocks, and forthey are caught in the autumnal equinoctiall. They thine in the Water turning their bellies upward, and they fend forth fuely aw light, that the Sea seems to lighten. It is a miracle that some related" concerning the Inhabitants of the Island Terra Santia of the German! Ocean, namely, that in the year 1530, after the Virgins delivery," 2000 men lived by Herring-filling there; but when they previllity whipped one of them, they had taken with rods, these fishes did for diminith, that afterwards scarce 100 could live by that labour. The Hulons have a grifle instead of a back bone, that hath a great empty hole, from head to tail as bored with a piercer. What Eliandia! 6. 25. faith of the Autacea, that in time they grow as big as the greatest Tunic sish in the Danube, and their abdomen is so far, that you would fay their paps were as great as a Sowes that gave fuck, and are covered with a rough skin that Spears are polished with them, with a membrane so tied from the brain to the tail, that dryed in the Sun, it will serve for a whip, that must be understood of these Husons: For Vadianus, in Epitome trium terra partium, writes, that he faw some of 400 weight: They are so fearful, that the least fish will fright them. They follow the found of Trumpets, that they will come to the bank over against it. Lastly, they are so strong in the water, that if they strike the fisher with their tail, they will strike him out of the Ship; so soon as they put their heads above water, they grow weak. They will drink strong wine, and live many days, being drunk they are carried to ftrangers, they will drink 4. Sexiarii of Wine.

Chapiron Of the Dike and Luna.

CHAP. X.

Of the Pike and Luna.

Lbertus writes, that the Pike hath its stomach so joyn'd to the LA throat, that sometime it will cast it up for greedinesse of meat; but it hath many appendixes wherein the Chylus made is preserved, as Rondeletius observed. There was a very great one seen that had another great one in the belly; and this again had a vvater-monfe. Another was feen that had two young Geese in it; another had a Moor-hen in its stomach. For great hunger it will feed on food at Land. It hath a natural Enmity with a frog. Hence it is that the Frog will oft times dig out his eyes. He cures his wounds by rubbing against a Tench, which he alwaies keeps company with. His jaw-bones boat into fine powder, given the quantity of an aureus, will break the stone. In England they cut off the belly of it two singers breadth, and if they cannot find a Chapman, they will few up the belly and put it into their fish-pond again vvhere Tench are. Though the cause may be attributed to friendship; yet it is better to attribute

Chap. 12.

it to the clammy matter the Tench abounds with, by which he may heal his wound. A Pike of Frederick the Emperour was faid to have lived 267 years in a Lake, that was found out by a braffe ring that he hid under his skin in his gills, when he put him into the lake, It had a Greek Inscription on it; which is to this sense; I am that Filb that was first put into this Lake by Frederick the Second, Emperour of the world, on the fifth of Ollober. Conradus Celtes faith, that ring was found upon that Pike, taken Anno 1497; as Gesner relates in Epistola nuncupatoria.

Luna is a fish exceeding beautiful, very small, broad bodied, of a blevvish colour; on the back it hath fost fins, which whilest it dilates in swimming, it makes a semicircle like to a half Moon, Alian. ex Demostrato. Those that fish for Bream say, that at the full of the Moon it will grow dry and die; and, put on herbs, it will make them wither.

CHAP. XI.

Of Manaty, and the Whiting.

Anaty is a great Fish taken in the Rivers of Hispaniola; His head is like an Ox head, or bigger: His eyes in respect of his body are small; he hath two thick feet, like wings in the place of gills, with which he fwims, they are fet about his head; he hath a khick skin, and no scales. He is so great that there needs a yoke of Oxen to carry him. Sometimes he is above 14 or 15 foot long, and eight hands thick; near the tail he is narrower, and as it were girt in, from which straightnesse the tail growes longer and thicker. He hath two stones, or rather bones in his head, so great as little handballs, or the bullet of a Crosse-bowe, and sometimes greater, as the fish is. He wants cars, but in place of them he hath small holes, by which he hears. His skin is like the skin of a shriveled Ox, a finger thick, ash-coloured, and thin fer with hairs. The tail from that straight part unto the end of it, is all nervous. From that, cut into pieces, and then fet five or fix dayes in the Sun and dryed, and then boyled in a Cauldron, or rather fryed, much fat comes forth: for it all refolves into fat. It is good to fry eggs in a frying-pan. For it never grows rank, nor unfavoury. He is made tame, and will be taught like a dog; but Franciscus Lopetius saith, he will remember Injuries. The petty King of Caramatexum, in the Island of Hispaniola, fed one of them 26 years in the Lake Guaynabo, and made him fo tame, though he were grown great, as great as an old Dolpbin; for he would take meat by hand; and when they call'd him Mato, which in their Tongue signifies Magnificent, he would come forth of the Lake, and creep to the house for meat, and then go back to the Lake again. Boyes and Men going with him, and when they fang, he feemed to be delighted with it : and he would let them sometimes ride on his tack; he would easily carry ten at a time from one part

of the Lake to the other. But when a certain Spaniard would make triall whether his skin were to hardor no, and threw a dart at him he grew to angry; that if he faw any clothed in Christians habit, though he were called, he would not come forth of the water. After that, the River Haibon fwelled extreamly and ran into the Lake Guaynabo: so he found his way to the Seas and the peou ple were very forry that he was gon. The whiting eats nothing, unlesselle fee it is dead, .Elian. The male is very jealous. For he flays at home, and fearing his young ones should be caught, he stays to preferve them.

CHAP. XII.

Of Mirus, Mola, and Monoceros.

He Fish Mirm is briefly described by Ambrosius Pareus. In the Venetian Sea, faith he, between the Venetians and Ravenna, two miles above Clodia, Anno 1550, there was a flying Fish taken, very terrible and monstrous, fourfeet long; he had a very thick head, and two eys not fet one against the other, with two ears, and a double mouth, a very fleshy nose green colourd, with two wings, and five holes inhis throat as Lampreys have; histail was an ell long, and in the top of it were two little wings! Allo Wo la is a Fish, that was taken on the calends of March, Anno 1 392, not farr from Venice; at first fight it seem'd rather a peice of Flest than a Fish. It was round, it had a skin without skales or hairs. The mouth was fo straight, that it was miraculous considering the great nesse of the Creature. The eyes were large, Bretching out, and greater than Oxe eyes. The gills were uncovered, fleshy, and bear 3 the fins on the fides were a span long. It had a very hard knot: The Jaws on both fides were fenced with a folld continued bone , the tongue of it fluck fast to the lower mandible, that he feem'd to have no tongue, the tayle was about 4, foot long. There were three fins on the taile, fo that the taile with the fins, were 9, foot long. The Fish was 8, foot long, 5, foot high and more; and turn which way it would, it was so high: when it was unbowelled, the heart, liver, milt, were greater than of an Oxe; and it had one gut coming to the passage for excrements placed under the belly. In the bottom of this gut there was a kind of bottom, made as it were of bruifed nervey like addle ftrings bruifed. The Flesh of the effecture was white as milk, and folid, as in a hog that is 5, or 6, fingers thick with far, as in Whales. Clusius calls the Monoceros or Unicorn, a Fift ; which the Dutch coming from the East-Indies brought along with them. Anno. 1601. A Merchant valewed it so high that hardly any mony would buy it. From the outmost part of the mouth, unto the fins of thetail it was not much more than three inches, the middle of the body was little above an inch broad; from the top of the head, where a horn fluck forth between the eyes, unto the lowest part of the belly, which also ended in a sharp point, it was an inch and half broad; the body 2.98

was covered with a dark rough skin, moreover it had a little narrow mouth flicking out half an inch long, fet with two bony little teeth. which seem'd divided into ten above, but beneath into sewer, unlesse they were broken out. The eyes that were put out, seem'd to have been very great, over which on the head, a little flender Horn fluck forth, that was four square, about an inch long, armed with ten pins like hooks tending downward, on both sides, from which to the fin, which from the middle of the back stretched out to the taile. there was an inch in length, pressed down like to a surrow, into which when he swims, he seems to incline his horn, Ge. Clusius, 1, 6, exotic.

CHAP. XIII.

Of the Muller and the Barbel.

He Mugil is a most temperate sish, if he light upon another, he will not touch it, till he move the taile. If it move he leaves it, if it moves not, he preys upon it, Elian. l. 1. c. 3. It is so salacious, that in Phanicia, and the province of Narbon, at the time of copulation, that the male being taken out of Fish-ponds, and with a long line drawn through his mouth and fastned to his gills, cast into the Sea, and drawn back againe by the fame line, the females will. follow him to the shore, and the Males again will follow the Females at the time they bring forth, Plin. l. 9. c. x 3. They are fo fleet that when they are hungry they will cast themselves over ships in their way. The Aullet was formerly fo noted for luxury amongst the Antients, that it was fold for a mighty price; and private Romans would often buy it for the weight in Silver, faith Jovius, if it were above a footlong. Also Pliny writes that Asinim Celer a Conful. was fo proud of this Fish, that when Claudius was Emperour, he Merchandifed with one of them for 8000 peices of money, that is about, 400 rich Dollers. Macrobiu, 1. 3. Saturnal, c. 16. adds more, that the Luxury of that age may be escena'd the greater, because Pling, saith in his timo no Barbel was found, above two pound vieight. Scaliger faith, exerc. 226, f. 15, that the Liver of it, lies next the left fide, the miltnext the right. But Albertus faith, that lust is extinguished by feeding on them, and it is fo ftrong that it will make a Man that cars ofit, to smell likeit. Atheneus saith, that strangled in Wine, it spoils the Wine. Pliny saith, that if it be stale, it will make one vomir,

CHAP:

Chap.14. Of the River-Powt, Co. 299 alich some into CHAP. XIV. Transition of the River-Powt, and Lamprey. 1 Science in the control of the River-Powt, and Lamprey. 1 Science in the control of the River-Powt.

He River-Powt is fo fweet meat, that in Thuringia, the Wife of one of the Earls of Bichling, is reported to have fpent all her Estate, in feeding on them. They are chiefly commended before Christs-Mas day; but they are not good when they are with young, for then in fome waters they are meazly. Some Huckfters, our out their Livers, and turn them into the waters againe, having fewed up the wound. Encelius writes that the stomack of it, with the appurtenances hath a wonderfull verque. Let at be faith he never fo old, in Saxonie, the women give it indrink, and it will dram out the Secondine staying behind, after Child birth, and is of great concernment for allidefeels of the matrix. They fay also that oyle is colleged out of the Liver, hanged in a glaffy Veffel against the Sun, or in an Oven; this is thought to be fo excellent for fuffusions of the eyes and for spots than Forestin in observat. faith, it will miraculously make, a dark fight clear. Nicander faith that Lampreys are wonderfull bold, for offen coming forth of fish ponds, they will bite the painfull Fisher-men and flye to the Sea, and will cast them headlong from the ships into the Sea; yet that they may be made tame, is apparent by the example of that Lamprey, which Macrobius and Alian, & others do testifie, that L. Craffus who was Cenfor with Cn. Domitius, did adorn with Gold-earings and Jewells, and a brave neck-lace. This knew Craffus his voyce when he called her, and being call'd would fwim to him ; and when he offerd him any thing, the would leap with delight, and lay hold of it. Crassus wept for her when the was dead, and buried hen honorably. And when Domitius raunted him tharply, faying, Fool Crassus, thou weptst for a dead Lamprey. He answer'd, I wept for the death of my Beaft, but thou weepft for none, not when thy three Wives died; thou burie dit them, but lamentedit them not. Play, l. 9. c. 23. faith, that it will grow mad by tasting Vinegar, But that is a wonder that Alian writes, I. 1. c. 37, That if you give them one ftroke they will endure it, and stand senselesse; but it you frike them again, they will be enraged. CHAP. XV. Con Manual Children of the Perch and Sca-Calf.

Is Ishermen in the Lake Lemanus have observed, as Gesner saith, that Perches will fend forth a little red bladder that hangs our of their mouth, and they will escape by that means; for it will make them swim over the nets, even against their wills : But it is thought this proceeds from anger, that they fell into the nets. This falls out especially

Chapario Of the Biemora Ga.

efficially when they drag them. But it is wonderful that this falls out onely in Winter. Their young ones do flick fo close togethery that the Fishermen in that Lake make them up in leaps. All of them have a meally Liver : Georgius Mangoldas writes it, and Gefner quotes him for it.

Sea-Calfs, when they fleep, fnort fo much, that you would think they lowed. ' Rondelettus faith, that the clammy humour that Aloks in their tharp artery being agitated by breathing in and out is ithe caufe of it. They love the Sca exceedingly: For when their skins are tanned, if there be any hair left, they will turn as the scarlies? by a natural Linstinct. For if the Sca be troubled and toffe, they will fand upright; but if the Sca be quiet, they lye flat down. When Pliny would not credit this, he made tryall of it in the Indian Sea, and about the Island Hispaniola, he found it to be no fable, as Carduh faith. Rondeleius faith, That by their skin, changes are foreshew'd; for when the South winds blow, their hair flicks up; but when the wind is in the North they fall fo flat, that you would think they had none. Aldebuandu faw one Calf taught by a Mountebank, who would rejoyce at the name of any Christian Prince, and would seem to mutter some words; but he was silent when the Turk or an Here-TOTAL TOTAL THE TOTAL STATE OF THE SHARE TO THE SHARE THE STATE OF THE SHARE THE STATE OF THE SHARE THE STATE OF THE SHARE THE rick was named.

of the Scales, and the Indian Reversus like an Ecle,

Figure He Scales do bring forth two or three young ones ar one sime; but at many times they bring forth more. Their eggs are first feen without a shell, in the upper part of their matrix. Some of them are as big as Hen egs, some lesse, some searce so big as chichpeafen. Aldrovandm counted above a hundred in one of them; those that are next to be laid, are put into the lower part of the mutrix, and are covered with a shell, wherein there is contain'd both the white and the yelk. When he much admired at this I and fought for the cause of it, he boyl'd hen-eggs, in which appeared no white at all, being but newly formed; and he observed the white severed from the yelk by the heat of the fire. Hence he found, that at first they lye confused, but are separated by degrees by hear, and the shell that compasseth them, is made of the grosser part grown hard. Olass, in tabula Septentrionali, pictures forth a Scale in the Sca, defending a man from a kennel of Dog-fish, in a place a little beyond the borders of Denmark.

The Indian Reversus like an Eel, is a Fish of an unusuall figure, like to a great Lel in body, and it hath on the hinder part of the head a capacious skin, like to a great purse. The Inhabitants hold this fish bound at the side of the ship, with a cord, and onely let it down, so

far as the fifth may flick by the keel of the fhip, for it cannot any wayes endure the ayr; and when it fees any fifth or Tortoile, which wayes endure the ayr, and when they let look the fill's he lo are there greater than a great Target, they let look the fill's he look the fill's he look foon as he is loofe, flies swifter than an arrow on the other fish of Tortoile, and casting that skin purse upon them, layes hold of his ptey fo fait, that no force can unloofe it, unleffe they draw up the cord a little, and pull him to the brink of the water, For fo foon ag he fees the light of the ayr he forfakes his prey, Martyr, Rondeles tim aferibes to him the understanding of an Elephant, for he will be rames and know what is faid to him.

The state of the Remora, and the Sea Scarus.

He Antients believed, that the Remora would fray Ships; and it hath been found true by examples of late. Petris extelarat of Bononia reports, that the thip of Francis Cardinal of Tross, when he went by Sea out of Brance, was held fast in the fwiftnesse of its courfe. Many have fought for the cause, but no man hath certainly found it. Some things are alwayes immoveable to do their office, as the Poles; somethings in respect of their place, as the Center of the Earth, which naturally never moves. Contrarily some things are to move alwaies to do their office, as the Heavens; fome things in regard of their place, as Rivers. So some things have a faculty of moving, as the Loadstone; some to stop motion, as the Remora. But fince no reason can be given, why cold is an enemy to hear, so nor for these things, why such things that have efficient principles in them of motion, do cause motion; and those that have principles of resting, should cause rest. Keckermannus seems to ascribe this to a cold humour that the Remora fends forth, that he freezeth the water about the rudder, In Disput, Physica.

Aristotle, 1.2. Hist. c. 17. faith, That of all Fishes the Scarus onely chews the cud. Quid testifieth, that when it is caught in a ner, it breaks not forth with the head foremost, but turns his tail, and breaks his way forth with that, often firiking the net. They roall them in Candie, shrusting a spir through their mouth, and there the Fishermen ear greedily their maws, ftust with more delicate mear. They math their Livers, that are very great, and without any gall, and their excrements alfo, together, adding to them fult and vinegar, Billonius. But a second of the se

The follow Early and the state of the state geapiditions sking like in o ger like and simbabeleng to day proves bound of the dide of the filly with a cond; and energy backed on file

CHAP. XVIII.

Of the Sea-Serpent, and the Sturgeon.

WT is most certain, that there are Serpents in the Sea; and Histories I show, that they are of divers magnitudes. Aristotle reports, that in Africa they will overthrow their Galleys, and kill Men. Olaus Magnus writes, that about Norwey, when the Sea is calm, Serpents will thew themselves that are 100 or 200 foot long, and sometimes they will catch men from the Ships. Schiltbergerus a Hollander, hath described the Combat between the Sea and Land-Serpents. His words are; In the Kingdom of, Genyck, there is a City call'd Sampson: at what time I refided with Urciafita King of the Turks, water-Snakes, and Land-Scrpents innumerable did surround that City for a mile on all sides: Thefe came forth of the woods that are many in the Countries adjoyning, and those forth of the Sea. Whilest these met, for 9. dayes no man for fear durft Stirre forths yet they hurt neither man, nor any other. Living Creature, On the tenth daysthefe two kinds of Serpents began to fight early in the morning. and continued till Sun-fet, and the water-Serpents yielded to the Land-Serpents; and the next day 8000 of them were found dead.

Many suppose that the Sturgion will pine away in the Albis. Gefner writes, that Johannes Fredericus Elector of Saxony, bought a Sturgion that weighed above 260 pound weight, for so many Franks. He is fo ftrong with his tail, that he will cut wood in funder, ftrike down a strong man, and strike fire out of hard stones; and the same is done by the rubbing of those little bones that are prickly all his body

CHAP. XIX.

Of the Salmon, and the Turdus.

Salmon about Colen is two cubits long, and they are greater A amongst the Miseni; and at Dessavia, neere the River Albis, from 24, to 36, pounds weight. In Helvetia necre Tigurus they are taken somtimes above 36, pound weight. Albertus saith, the intestine of it, is divided into many parts like to fingers. Gefner writes, that he observed two passages from the very throat of one that he dissected: they stretched downward, one to the Maw by the Wezand, and the other was namelesse. In the River Mulda necre to Deslavia, if the Salmon striving to overcome the precipice of the water, be frustrated at the fecond or third leap, he lwims to the foard, and there he will lye hid under stones and gravel, and pine away; he is full of brassecolour'd spots, and his beck is bent like a great hook. In Scotland in Autumn they meet in little Rivers or places fordable, where they joyno bellies, and lay eggs, and cover them in the gravely at which timo

Chap. 20. Of the Torpedo, &c. the male is to spent, spending his milt and seed, and the female

with her spawn, that they are nothing but bones and prickels and skin. That leannesse is infectious, for they will infect all the Salmons they come necre. It is an argument thereof, that oft times they are raken, and one fide is confumed, the other not fo. From their eyes covered in the land, little fithes breed the next spring that are so fost, that untill they be no bigger than a mans finger, if you prefle them with your fingers, they will run as from congeled moviture. Then first, as Nature leads them, they hasten to the Sea, and in 20. days, or a little more, it is incredible how great they will grow, when they come from the Sea, against a River that runs thither, they thew a wonder. For the Rivers that are straightned with Rocks, and Banks on every fide, and therefore run down swiftly, when they fall with a great fall, the Salmons do not presently swim forth by the Channel, but they fling themselves up crooked by force of the water. and se are carried in the Ayre, before they fall. That they are lively, is feen by their heart taken forth. Robertus Constantimus testifies that he faw the heart of a Salmon that was unbowelled, that was wet with a moyst sanies, and it lived after it was taken forth above a day. There are some different kinds of Turdi. Some have as it were some skiny yellowish Apophyses hanging down from their lower chop's somtimes they vary, and are all for the most part Gold colour, or colour of the Amethyst or blew. Their eyes are extreme great, and a black circle goes about a Golden Apple, a Golden circle about the black, and lastly a black circle goes about them all. The fins by the gills are wholly Gold colour, but of the brest they are all blew. except their nervs that are Gold colour'd. The fin that is from the anus, and that which is on the back, and taile, where they are joyn'd to the rump, are Gold colour'd, but sprinkled with little red blood spots, the rest are blew.

The state of the s CHAP. XX.

of the Toppedo, and the Tunic.

Have nothing to fay of the Torpedo, but that he benums the thands; and hence he hath his name. And he don this to eff fedually, that before he is taken, he will do it by the net, of the rod! He infeshehis cunning, that covering himfelf with mind and dirt, he willoatch hitlofish very strangely, Plinil. 1. utr. anim. The Tunies though they be caught in many places, yet chiefly about Constantinople; for when they come to the Islands Cyanes, and are past by the flore of Chilledonia, a pertain white rock appears to them land doth so terrific the Tunies, that immediately they put over to the fatther bank; and being taken away with the swift current of the waters, the natural fithesse of the place turns the course of the Sea to Constantinople, and the winding thereof, so that being driven thithes by force of Nature, it is no wonder, that they fall into snares. They are also ingendred in the Lakes of Maotis; and when they are a little grown, they break forth of the mouth of the Lake in sholes, and run by the Afiatick shore so far as Trapezunda; but because they cannot endure tempelts and cold weather, whereby their eyes grow dim; they stay in a very deep place of the Thracian Sea, that harbours them, it is called Melas, and it hath hollow and muddy places fit to cherifh fish in, and they grow till the Spring. They seem to understand the blowings of the winds. For Pliny faith, they flay for the North wind, that they may get out of the Pontick Sea, with the flowing of the was ter to help them. They enter into Pontus one way, and go forth another. For Aristotle, 1.8. Historic. 13, faith, they lye on their right side next the Earth when they go in, and come forth on the contrary fide; for they turn on the left fide; which, faith he, they are therefore faid to do, because naturally they see clearest with their right eye; and duller with the left. The old Oracle of the Prophet Amphyllus in Herodotus, proves that they go forth in the night. And this is again confirmed by ancient medalls, such as Bellonius writes that he saw at Paris, on one fide was an Ear of Corn; and on the other fide the Tunie; and above this, the Moon with an Inscription of Phillips. They fleep so foundly, that they may be taken napping.

CHAP. XXI.

Of the Uranoscopus, and the Sword-fish.

Ranoscopus is a fish that swims alone, and cats flesh; so lively, Liaith Bellonius, that if you take out all his Entrals, yet he will move still: It is the greedicht eater of all fish, he hath an apophysis hanging forth of his mouth, and with that he enfuares the fifh. This shews he is an insatiable paunch; that if you cast meat to him, he

will feed fo long, till the meat come up to his throat.

The Sword-fish hath a beck on both chaps, but the lower of them is short and triangular; the upper is more bony and harder, and far longer, fometimes two cubits long. In the Indian Sea they grow fo great, that they will pierce the sides of the strongest Ships, a hand and half in thicknesse fometimes, Jovius. Gesner writes from the relation of a faithfull friend of his, who saw a man when he sailed into Syria, that fwam by the Ship side, and he was cut in the middle by the beck of this fish. He fears a VVhale, and when he fees one, he claps his sword into the earth or some place of the Foard that he can, and fo forms himself like to a log; and the Whale neglests him, and fwims by him.

CHAP. XXII.

Of some other wonders concerning Fishes...

TN Minerals and Quarreys also fishes are found, especially if the Aplaces be moyft, though there be no water. Theophrastus observed this in many places of Pontus; Eudonus in Paphlagonia; Agricola at Orterantum, beyond the Albis. There is a plain by the River Narbon, by this run the Rivers, Hiberis and Refchinus; there are foisil fish found therein. The earth is tender there, and brings much graffe; about two or three cubits under this, runs the water of the Rivers that hath dilated it felf. If at any time they overflow, they fill the plain with fish from under ground, Polyb.in Histor. There are two forts of them, fome round like to Eels, but they want a tuff skin; they are scaly as Gudgeons, their flesh is hard, and not well favoured. The great ones are two fingers thick, the smaller but one. Those are four hands breadth long; these but three: they make a sharp noise. Apothecaries shut them up in glasses, and hang them down from a beam, and feed them with bread for a long time. Sometimes they come forth of Rivers that run in Fenny grounds, and come far into the Land by the veins of the banks, and sometimes into Cellars. Theophrastus writes, That in Caves they feel nothing, because their senses are stupisfied; but when they are boyl'd in a por, and when they are dug up they will stirre.

In a certain River of the East-Indies there are fishes call'd Tuberones; they are so greedy, that one of them catcht at a man standing on the side of the Ship, and first bit off his foot, and next his hand, Linschotten, in Navigat. It is almost incredible, that the same man writes, namely, That a Ship coming from Mozambique, went backward 14 dayes, though the wind were good for it, and nothing to hinder it, and that was found by every dayes observation of the Suns heighth. And when the doubtful Marriners enquired for the cause of it, and thought they had been bewitched, at last a fish was found under the Ship, and they collected, that this fish carried the Ship on his back the contrary way against the force of the wind. For so soon as with much ado, they had driven this fifth away, they failed forward very well. The History is painted in the Palace of the Deputy-King of Goanum, with the Name of the Pilote, the Year

and the Month.

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Blefhenius writes, in his description of Islandia, That in the Island Sea there is a Monster, the name he knowes not, but they take it to be a kind of Whale; when he puts his head above the Sea, he doth so fright men, that they will fall down almost dead. He hath a bead is four square, flaming eyes, and it is senced about with black horns; His body is black, and ser about with black feathers.

CHAP.

Qg

If he he feen at Night at any time, his eyes feem fiery, that all his head that is thrust above the Scamay be seen by it. Olaus, 1, 12. makes mention of it, and faith, it is 12 cubits long. So much for

The End of the Winth Classis.

ESCRIPTI

Naturall VV onders.

The Tenth Classis.

Wherein are set down the Wonders of MAN.

Hofoever thou art, that dost unjustly determine the condition of Man, consider how great things our Mother Nature hath given unto 14 ; how much more frong Creatures are under our subjection ; how we can catch those that are much more swifter than our selves, that nothing that is mortal is not under our power. We have received fo many Vertues, fo many Arts, and lastly a Soul, swifter than the Stars; for it will out-run them in their motions, that are to be performed many years after, and in one moment penetrates into whatfoever it is intent about; Seneca.

CHAP. I.

Of Man in generall.

Itherto I have described irrational living Creatures; Man followes next, of whom we shall speak in order, according to his actions, natural, vital, animal, and rational. And first of his proportion. This is so excellent and admirable, that it cannot be more. The body of Adam was made out of the Earth, and ours of 3. small drops of seed, and as much blood, poured forth like milk, and framed like to cruddled cheefes of the fame matter, are so many and so divers partsmade. The whole fructure 308 contats of above 200 bones to apport it, and as many cartilages; all the joynts are sincered with, all are joyn'd together with many ligaments, and cloatned with innumerable membranes; the vast mass of the members are watered with above 30, paire of nervs, as With little cords, and all the parts are sprinkled with as many arteries as with water pipes, filld with foming blood and vital Spirits 1. the empty places are filled up, and the entralls covered, with almost 400, Muscles, and sleih of divers forts, as with slocks; and lastly all is covered about with skin. The Image of God is in it (his mind represents the same) and it hath included in it, the forces and temperament of all the oreatures. You shall find many men that have an Offrich stomack, many that have the Lyons Heart, not a few have the beart of a Dogg, many of a Sow ; and infinite there are, that are like the Affeby nature. Mexander the Great, had fuch a symmetry of humours ; that his spirits, and humours, and also his dead body, smelt as sweet as natural balfom; because in man as in the Cantre, as in a knot, or little bundle, the original and seminary cause of all creatures lye bound up. Vegerables are nourished and increased by the balsom-like Spirits of Mineralls, animals of vegetables, and by them of mineralls; but man, for whom all things were created, is nourished and augmented by the balfamick spirits of animals, vegetables, and mineralls; wherefore there is reason that he should consist of all chefe. Wherefore in man there do flowrish, and produce fruit, chat are messengers of health or sicknesse, both the balme, violets, Germander, namely the Spirits of the Heart, Brain, and Liver : the Neutle, Wake-Robin, Crowfoot, as Pushes, Scabs, Creeping fores; Also there are wrought in man mineral separations, that appeare in paroxyims, of Vitriol, Alum, Salt, of Gemma, of the Colcothat, Tartar; as the Leprofy, Elephantiasis, Morphew, Cancer, discovering themselves in several Tindures and Signatures. Nor are aqueal generations wanting, as Gold, Silver, Tin, Copper, Iron, Lead; the Heart, Brain, Liver, Reins, Stomach. There are found in our bodies Mines, out of which stones are dug, the stones of the Bladder and Kidneys, not to build but to destroy the house. The head is the Fort of mans mind, the seat of reason, the habitation of Wisdom, and the shop of memory, judgment, and cogitations; possessing the highest place doth it not represent the uppermost and angelicall part of the World? You have the middle and the Calestial part in the Thorax, and in the middle belly, exactly fer forth. For as when the Sun rifeth, the upper parts are enlightned, and all the lower parts are enlivened; but contrarily, when the Sun departs, they grow cold, and tend to ruine: fo by the perpetuall motion of the heart, and by the vital hear thereof, all things flourith, and there is a plentifull harvest of rejoycing, to be perceived; but when that is darkned by cares, forrows, fears, and other Clowds, all the parts are debilitated, and at last dye. Who sees not the sublunary part of the World, expressed in the lower belly. In it, are containd the parts that ferve for nutrition, concoction, and procreation, a Per-

haps you will want the Dukedome of the Planers in this little world, Behold, the flowing marrow of the brain represents the moysining power of the Moon, the genital parts serve for Kenus, the Infruments of eloquence and comelineffe do the office of witty Mercuny, the Sun and the Heart hold the greatest proportion. Man's Livers the fountain of good vapours, is compared to beneficiall Jupiter ; the bladder of the Gall, contains the fiery fury of: Mars ; and take. loofe spungy sless of the Milt, which is the receptacle of melanchon lique humours, doth perfectly represent the cold Planet of Saturn, And: if you please to proceed farther, I can say boldly, that the Elements, Seas, Winds are here shadowed forth: The spirits of Mans body. do set forth Heaven, the quintessence of all things. The four hus mours expresse the four Elements; Hot dry choler represents the Fire; blood-hot and moyst, the Ayr; slegme, cold and moyst, the Water: melancholy cold and dry, the Earth. So the belly of Main is the Earth, fruitful of all fruits: The hollow veing is the Meditens ranean Sea; the Bladder the Western Sea, into which all the Rivers discharge themselves, and the superfluous salt which is resolved, is collected. He hath the Bast in his Mouth, the West in his Funda? ment; the South in his Navel; the North in his Back ... Europe, Afrey Africa and America may fummarily be described in Man. Where, fore Abdalus the Barbarian faid well, that the body of Man is anyada mirable thing; and Protagoras call'd Man, The measure of all things, Theophrastus, The pattern of the Universe, and Epitome of the worlds Synchus, The horizon of corporeall and incorporeall things. And laftly? we may truly cry out with Zoroaftres, O Man! the workmanship of most powerfull Nature; for it is the most artificiall Master-piece of Gods hands.

CHAP. II.

Of Nutrition.

Article 1. Of the harmlesse feeding on venomous things.

F we regard Histories, we can hardly doubt, but that venomous things may by custome become nutrimental: For many learned men having written thus, they ought to be of credit: Avicanna, Rusu, and Gentilis speak of a young Maid, who was fed with poyfonous creatures from her tender age 3 and her breath was venom to those that flood by her. Albertus writes, That at Colonia Agrippina) there was a man that hold Spiders for his daintiest mean. One Porms a King of the Indies, used poylon every day, that he might kill other men. There was one who killed venomous creatures that bir him Avisenna 1.8, de anim. c. 2. It is a known History of a cyoung Ward fed with poylon, with which the Perfian Kings kill'd other mency la Hellespont the Ophyogenes feed on Serpents 1: Dimbhae: was dulighted with the fame food, when he was cast into a vessell fill'd with Seres punts; received no harm. Pliny and Athenagoras of Greece, could. never be hurt by Scorpions; and the Æthiopians, that are Inhabitants by the River (Hyafpis, made brave cheer of Serpents and Vipers. Galen faith, That an old Woman of Athens cat a great quantity of Hemlock, which did her no hurt. Hypoth, the Empirick, writes, that another took 30 drams of it, and received no harm; and he faith further, That one Lylis cat 41 drams of Opium. The Thracian Dame. made gallant victualls of handfulls of Hellebor. Laftly,

King Mithridates could not poyfon'd bee, He drinking posson oft, grew posson-free.

If you fearch the cause of it, you shall find divers. First is, every mans. natural property, by reason of which, Stares feed on Hemlock Sows, on Henbane, with delight. Then there is a certain proportion of. poyton; for this changeth the power of the poyton, and the difpofition of the subject. Again, the strength or weaknesse of the body. Conciliator faith, he faw four men feeding on venomous meats, one. dyed suddenly, two were dangerously sick, and the fourth escaped. To this adde the force of the composition, and the quantity; the varicty of the time and place wherein they are collected. So Trakim Mantinensis gathered his Hemlock in the coldest places, that he might sooner kill men. Theophrastus thews, 1.9. hist. Plant. that at Chios there was a certain way to compound it, to make it effectuall. One flung by a Scorpion, may live many dayes; and one flung by Ammodites may livo 7 dayes. Chersydrus kills in 3. days ; a Viper in 3. hours; a Basilisk suddenly. Lastly, the history of a woman that fought to poyfon her husband, proves, that poyfon growes more effectuall by being mingled with poylons of the same kind; and lese, by being mingled with poylons of a contrary kind. Allo it is certain, that hot poylons cannot be conquer'd; for Sublimate by its extream corroding cannot be concocted by nature; and Napellus kills by its extremity of heat.

Article 2. Of the eating of other unufuall Meats.

Ancelius 1.3. Analog. writes of a Maid delighted to feed on dung; and he relates, that a certain Noble-man did greedily sup up the liquid dung of Maids. Fernelius 1. 6. Pathol. c. 3. tells of a Maid that eat quicklime as great as a mans Fift. Trincavellus tells of one, 1.7.c. 5. that earthreds out of Garments. Lustamus c. 3. cur. 86, of one that eat Rombasse and Wooll. Marcellus Histor. mirab. 1.4. c. 1, of one that eat Lizards. A woman that was fifty years old eat Tartar, Nicolamferm, 5. tratt. 4.0.36. Camerarius speaks of another cat hair; This may happen in a particular disease, which in women with Child is called, waxaxia, in Virgins and others, xilta. For the cause is a vicious naughty humour, impacted in the coats of the stomack, or Chap. z. Of prodigious Eapers.

bred mothe fame by ill diety or coming thither from the matrix. Hence for the three first months especially it happens to woman great With Child, when they vomit, and the Child confumes morn much. It troubles maids, when their courses are fropter Butido is hard to fay, how fuch an appetite should proceed from this cause, and it is better to ascribe it to a hidden quality than to commit an absur! dity in what is manifest. But what is reported of one Lazarss jothat; he would cat glasse, stones, Wood, Living oreatures, and Live-fish, and we were told by the famous winfemius in pralestion, anatomic, that a Country man in Fristand would do the same for money, that seems to proceed from the fault of the nerves: For in him; when he was diffected, the fourth conjugation of norvey that is produced in other men for the benefit of their tast, neither came to his tongue nor pas late; thie was turned back to the hinder part of his head, as columbis observed, Anatom. 1. 15. Some also think a man may be nourished by finells, and fome Histories fay, it hath been done. Rondeletina de piscib? faith, that one at Rome lived 40, yeares only by the Ayre, and L'aertius reports that Democritus the Abderite , a Philosopher lived four days by fmelling of bread steeped in VVine, that he might not profane, the featts of Ceres. Cardanus I. 8. de varietate rerum. c. 41; faith, that, men may live longer only by contemplation. Lastly, Megasthenes writes that at the farthermost part of the Indies ; from the East about the River Ganges, there is a Nation call'd' Astomores, people that have no mouth, their body is all hairy, and they are clothed with the mosse of boughs: they live only by the Ayre and sents that they take in by their nostrills, they take no meat nor drink, buronly the diversity of smells from roots and slowers, and wild Apples, that they carry with them in long Voyages, that they may not want sweet smells; and if the sents be too strong a little, they easily are killed thereby, Pliny 1. 7. c. 3. Yet surely sents being but qualities can nous rish no man; they may out of all question refresh and cherish the brain.

Artic. 3. Of prodigious Enters.

Here was a Woman once at Alexandria, as Athenaus sets it 1 down; he faith, She eat 12 pound of flesh, four chavice of bread that is more than 12 pound; and the drank a gallon of wine and upward Maximinus the Emperour would drink often in one day of Gallons of Wine of the Capitol measure, he cat 40, pound of flesh; and as Cordus faith, 60 pound, Capitolinus is my Authour; now an Amphora Is 8, congli, that is about 9, Gallons. One Phagon in Vopiscus, who was in great respect with Aurelianus the Emperour, ear so much in one day, that he devotired a whole Bore, a hundred Loafs, a Wether and a young Hogg 5 and he drank more than an Orca of Wine witha tunnel pur into it; now an Orca was a Veffel of VVine greater than an Miphora! What shall I say of clodius Albinus the Empordir ? He, 48 Capitolinus writes, devoured fo much fruit as is incredibla to fpeak ! for Cordus faith, that he eat 500 dried Figs which the Gracians call Gallistruas, for a breakfast; and a hundred Peaches of Campania, and ten Melons of Ostia, and 20 pounds of Grapes of Lovinium, and a hundred Guissappers, and 400 Osslers.

Uguscio Fagiolanus being a banish'd old man, did glory at the Table before Scaliger at Verona; that when he was a young man, he cat four fat Capons, and so many Partridges, and the roasted hinder parts of a Kid, and the breast of a Calf stust, beside salt sish, at one Supper To this appertains that prodigious man, in the time of Casar Maximilian, who cat a raw Calf, and a Sheep, at one meal. Suidrigellus Duke of Lithuania, sate 6, hours at Supper, and sed on 130 dishes, Sylv. 1.2. Comment. in Pannormit. The Epitaph of Thymocreon Rhodius was this:

Here Lies Timocron Rhodius, who had skill To eat and drink, and rail, and speak much ill.

Now over-great appetite, if it proceed from a præternatural cause, it is called Bulimos; and if it be with vomiting, it is call'd dogs appetite. And it proceeds from some gnawing humour in the stomach, or from a confirmation of the whole body, or by reason of the operation of the cold ayr; or, lastly, from Worms. Brutus, when he went from Dyrrachium to Apollonia through the Snow, had like to have got this discase; and a woman that cast up a Worm of twelve fingers breadth long, loft her great stomach; and so did another that voided 100 worms. Brasavolus testifies, that this disease was epidemical at Ferrara; and Anno 1535, it was fo in Borusia; Leonellus Faventinus writes it. Gemma Frisius speaks of a woman not very aged, that could not live one moment without cating. He gives the cause to be the greatnesse of her Liver, and the prodigious peculiar comperament of it. For her fat being increased unmeasurably, and her heat choaked, her belly was opened, and about 20 pounds of fat were taken out; her Liver was found to be found, swelling with blood and spirits, but extream red, and huge great, that by its very weight it pressed the vitall parts, Frisius 1.1. c.6. Cosmocrit.

Article 4. Of monstrous drinkers

This no hard matter to find men that sail in drink, and rowe in their cups. You see that drunkennesse abates in no part of the World, and as if we were born to consume wines, and they could not be poured forth, but through the bodies of Men. What Seneca foretold, That a time should come when drunkennesse should be honour'd; and to drink abundance of wine, should be esteemed Vertue, is come to passe in our dayes. He is counted best, not he that can speak knowingly of Philosophy, but he that can drink off many great cups, Galen. And not onely wine and waters, but smokes and sumes are introduced to make men mad. Yet all go not an equal pace, some will win the garland.

Chap. 2. Secrets, concerning Drunkenness. 313

In that publick drinking for a wager, before Alexander, there was one Promachus that drank four Congii, that is, 40 pound. We read the same of Proteus of Macedonia in Atheneus., Novellius Torquatus of Millan drank 30 pints at one draught, Tiberius the Emperour Handing by to fee this wonder, Plin.l. 14. hift. Natur ; And which is more wonderfull in him, they are Pliny his words, He wan the glory of it, that is very rare, for he never fail'd in his speech; nor did he womit or word any thing any way when he drank; nor did he fleep : he drank most at one draught, and drank many more little draughts: and he was faithfull in the businesse, not to take his breath when he drank, nor to spit any out; nor did he cast away any snuss that could be heard dash on the pavement. Cicero the fon, drank two gallons. Bonefus, as the words of Spartianus confirm, drank more than any man. Aurelianus faid often of him, He was not born to live, but to drink. Yet he long honour'd him for military affairs. For if any Embassadours of barbarous people came from any Country, he drank with them to make them drunk, and fo in their cups he would find out their fecrets. He drank what he pleased, and was alwaics fober; and, as Ouesimus the writer of Probus his Life, He was wifer in his drink. This was farther admirable in him, that, fo muchas he drank, the like quantity he piffed, and his belly or tomach or bladder were never burthened. A certain man drank 6 gallons at a marriage of a Noble-man, in the dayes of Lipsius. Nicetas 1. 3. Hiffor. writes of Camaterus Logotheta that drank two gallons.

Article 5. Of some Secrets concerning Drunkennesse.

Runkards differ in their manner of their drunkennesse; for some are drunk before others. And some when they are drunk fall backwards, some forward, some sing, some quarrel. Writers give many reasons for this: They that are soonest drunk, are not, accustomed to Wine, or they have drank more then their ability, (for naturally one cannot go from one extream to another without inconvenience) or they have narrower veins that are too hot, or have a thicker constitution of body, or they prate too much when they drink. For speaking out, augmenteth natural heat that is inflamed by wine, and fills the head with vapours, and heaps up abundance of them; which being corrupted by continuall motion, are diffributed through the whole body, diffending the eyes, inflating, the temples, offending the brain. The same reason serves for such who at leasts cat hor bread, drink strong wine, and car abundance of meats that are falt, and talk continually. For all these things increase third exceedingly, and makes men drink out of measure. Also divers forts of men cat bread wherein there is contained Nigella feed, Darnell, when they car brown bread, or mingled with Miller feed. For these cause heavinesse, and a passion like to drunkennesse by grosse vapours, Canonher. 1. 3. de admirand. Vini c. 1. Hitherto apperrains refined wine, poured from the Lees. For this, though it be weaker to preferve it felf, and having no lees, will fooner grow fowe, for the

Lees are the root to preserve the Wine) yet because it is mayster, and pierceth into all the Veins of those that drink it it sooner inflames the blood, makes men drunk, and overturns reason. Jason Protent. de morb, cerebri. But women come not into this confideration, nor fuch as drink tharp. Wine after fweet, or fuch as delight in new Wine. For women arc of a very moyst body, are often purged, have very open passages, Macrob. in Saturnal. Yet because they have a weaker brain, and narrower futures of their skull, it is better to fay with Alphonfus Lupeius, that they are feldom so drunk that they rave, but they are often fortish in their drink. Sweet Wine stops the pores, through which the Vapours of sharp Wines; might al-

cend to the head.

Lastly sweetnesse so resists drunkennesse, that Physitians cause fuch that are too much inflated with VVine, first to vomit much; and then they give them bread with honey to cat, to repell the fumes that remaine of the Wine; Macrob. Saturnal: What concerns their divers gestures, that is founded in the diversity of the parts and humours. Fumes from Wine flye to the forepart of the head, and fumes of Beer and Ale to the hinder parts. Those that are drunk with this, fall backwards, but these with Wine fall forwards. Those are clambrus and talkative, these sleepy and forgetfull. Lemnius 1, 2, de. occult. c. 19. They see things lesse a farr off, because the optick Spirits are made more thick. The fanguine tempers laugh; the cholerick prate and are mad; the phlegmatique grow stupid; the melancholique fad. And because all of them have their opticks troubled with Vapours, they all see a divers colour'd circle about the light of the Candle. Gordon Libro, Medic. part. 2. c. 21. If they weep they delight in so doing. Rhodig. 1. 12. c.4. Moysture makes them stammers for by this the tongue is extended as a sponge with water, and below swoln and thick cannot speak plain. Jacob Pratenf. de natura vini. Moreover experience hath found that Coleworts refift drunkennesse exceedingly, chiefly raw, and above all the red Cabbage. Lemning 1. 2. c. x 1. de occult. But Galen faith, L. 2. de composit. medicam, c. 5. hot Cabbage macerated, and bound about the head. And fo great is the antipathy between it and Wine, that if one powre Wine to it whil'st it boyls, it will not boyle much. If you defire a reason, some fay, that by eating of it, groffe Vapours ascend, that thicken the Vapours of the Wine. Aristotle saith that it draws the moysture of Wine down to the belly, and cools the body, weekerus attributes the fame force of the Ivy, and Alexander faith that smallage, nuts, Lupins will do the like. Pumanellus faith, powder of Pumex-stone drank in water will do it. Gratarolus speaks the same of Saffron, devini naturac. 5. Africany, of a Goats Lungs. Amandus de Santia Sophia, 1. 1. de veris fecretie, attributes as much to new Milk drank fasting. Platerus prax. medic. Tom. 1. c. 3. prescribes pap made of Milk and Barley meal taken with Vinegar. And he describes a certain powder thus: "Take Colement feeds 1, dram; Coriander feed 5, drams; campbir, 10, grairs: make a porder, and give one spoonfull in sharp wine. But the dung of swal-

lows powdred and drank, will make a man lober, Pliny. Rue eaten; Merula. The humour that first drops from the Vines at the begine ning of the Spring; bread that is made of darnels dried and made into powder. But that is superstitiously said, That who soever shalf rchearfe this verse, before the first glasse of Wine he drinks

of Bread. W. C. A.D.

Juppiter his alta fonuit clementer ab Ida. shall never be drunk.

Artic. 6. Of Bread.

THe chief foundation of mans preservation and nutriment! and the staffe of life, is bread, well ordered. Hence some fay, Panis, Bread, comes from pasco to feed ; some take it to be so call'd from Pan, that is, all, because it answers all mear. It is made of divers things. The Ethiopians made it of the feed of Orindium. The Illhyophagi made it of fish dried in the Sun. Plin.1. 7.0.1. The Egyptian Thepherds made it of the Lote-Tree feed. Pling, 1: 42:02 21. Neer the Mountain Vogefus, about the Town Burcken; there is a fine white meale dug forth of a Mountain; the Inhabitants make Bread of it, and all forts of Cakes, Claudius Diodatus, I, 2. Panther Hygiastici.c. 4. But I say, that can be no true meal, but it must be miraculous. I think it is some thick juyce that proceeds out of the earth, and in time is congealed by heat of the Sun, and so becomes fine meale. Divers Medicaments are made of bread. Aqua-vitathe most noble treasure of life is thus made. Take the best bread cut into thin sippets, what is sufficient; put them into a hot Furnace, that by degrees they may dry, like red Bifquit : then bruife it grofely , and put in into a wide cauldron, and for every pound of this Bread, put in five pound of Fountain water; flowers of hops one handfull, of annifeeds one ounce : boyle them together till one part be confumed , let them coole a little , and them power them forth , and past them through a basket or sieve, then power on Some leaven, first dissolved in warm water, sout this up in a Veffel, and let it ferment and work like new wine : lastly part it as it grows clear, distill it , and relificat like Spirit of wine. Some distill the crumbs of white bread newly taken forth of the Oven, putting it into glasse Stills, four ounces of it are given successefully against the Epilepsie. See Deodate how the quintoffence may be extracted.

Artic. 7. Of wonderfull fasting.

Hough nourishment be necessary for out life, yet thete have 1 been many, that have lived along time without it. In Saint Augustine his days, one lived 40, days without eating any thing. Another, in the time of Olimpiodorus the Platonift, for fo long as he lived , he neither fednor flept, but only flood in the Sun to tefresh himfelf. The daughter of the Emperour Glotarius fasted eleven years. Rra Paris

Chap. 3.

Petrus Aponus saw one fasted 18 years. Rondeletius saw one fasted ten, and afterwards became a fruitfull Mother. Hermolaus knew a Pricht who lived in health 40 years without any thing, but by fucking in the Ayr. Lastly, one Nicolaus Helverius under waldenlis, Anno 1460, after that he had five Children by his Wife, lived a folitary life, and neither ate nor drank in 15 years. Some dare affirm, that he fasted 22 years; and Bocatius saith, that this party, or another, fasted 30 years. Mago Carthaginensis, and Lasyrias Lasionensis lived without taking any liquid substance all their lives, Athen. 1,2, c. 2. One that Colins speaks of, that was by Country of Tomos, did the like at Naples; and Ariftotle speaks of Andronis of Greece.

Will not fpcak of Conflana and Bernenfes, two Maids, in Quercetamul. 2. Diatetica c. 6. nor the Maid of Colen, in Albertin l. 7. de animal; nor her of Hay, in Namelius; nor yet of the Aunt of Timon, in Atheneus 1, 2. nor yet of the French-man that came from his Pilgrimage from Jerufalem: Yet there is no man, I think, but will, fav, that all these things are preternatural. The cause is, in what takes away, or augments the appetite; and that is done either when the meseraique veins do not attract the Chylus, and draw it out of the stomach; or when their fucking is not perceived in the orifice of the Romach. That, is caused by stopping of the veins, or by a hot distemper, or want of evacuation of the excrements that abound for when the orifice of the stomach is befer with flegmatick humours, This, either from the inhibition of the influence of the animall spirits, and the fainting of them, or from the distraction of the faculty, or from the differiper of the fromach, and stupidity of it. But because death doth not follow this taking away of the appetite, there must be some other cause besides. Some make this to be, the relaxation of the nerves in the orifice of the stomach, as Langin ; others think the Ayr drawn in, feeds the spirits, as Quercetan. But since they do not shew the cause of life, and this opinion is yet doubtful; and they, which make the cause to be abundance of flegmatique humours, confesse there are plenty of them in cachecticall bodies; Sennertus his Judgment pleaseth me best, who sayes, that such bodies are almost immortall? and little or nothing exhales from them; because they consist of a renacious humour well compacted and growing fast together, and that will not yield to the action of heat that feeds on nutriment; and their heat is most mild and gentle, and requires not much nourishment, Inflit, 1,2. Part. 3. Sett. c. 2.

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Ditrition hath attraction, retention, expulsion, concection like ordinate unto it. Concession is either in the Stomach, the Lives; or the Spleen, or in other parts. In the first the Chylm is made white meat, the faces and watry excrements are cast forth : In the forond. blood, yellow choler, whey, and urine are fent forth; in the third, dew, glew, and that which is call'd Cambium, fome thicker, forme thinner are thrust forth. As for the Liver, there was none found in Muthias Ortelius, a Merchant of Antwerp. Though it be one critical body in Man, yet in bruit beafte it is divided inco many Lapit if In one Maid it was found with three laps. In Carolin Sabrudus it had four little coats, Prancife. Puteus, L. 5: Apol. In Colet, the outmet fibres of it were adorned with hairy tufts flicking forth, Cameran When the heat of it growes weak, a Dropsie followes: whill says

I will fay a few things of the Spleen; There was a woman at Parts was found to have none, Holler, in observ. And Tliny has faith, Thee in Cammu, men are born without it, Natur. Histor. 6.73. ... Hence the common people think it may without hurt be cut out of Footmen and Horses. Pallopius observed 3. that lay one upon another. Polities observes two at Montpelier: Where it incressethithe bedy decayes. For then it sucks away too much Chylus from the Liver. Hence True jan call'd the Spicen the Treasury: For, as this growes rich, the common people grow poor : fo, as the Milt increaseth, the body decrease feth. One was feen fo great, that it weighed above 20 pounds, lumb. 1:15. Anatom. A Marriner had a Milt 23 pound weight, and his Liver eleven pounds. In Jacobus Antonellius it was no bigger than a Pigcons Egge; In one of Spoletum it was empty like puries Article 2. Of Humours in generall.

Here is scarce any question to be made, but that the Humoure L cannot be defined by the onely force of the Elementary qualities For Man lives upon Plants, and they contain in them sharp, bitter, and fometimes Minerall juices. They are alter'd indeed by that internall Archeus, which is naturall heat; but when they are ung mingled, unfit, and robustous, they cannot be changed,

Hence it is that Urines are made fomtimes that will corrode cloth; and formtimes blood falue from the note will do the like. Doring, 1.12 de medicin, et medic. Somtimes things are cast up so hot by vomit, that they will boyle in the bason, and dye Silver Chargers with a brasen colour, that no washing, nor strong rubbing can take off, Schenk. 318

1.11

obs. 1.3. Sometimes things yellow like Saffron are voided, so sweet; that they tast like liccoris, when as they should be bitter, Cardan, contra, 9. 1. 2. traft. 5. reports that a woman that had drank Poyfon, had a vein opened, and no blood would run forth, but a green juice as from herbs, to 9. ounces in quantity; and a mans blood was, like to milk. The humours have wonderfull conveyances in the body, and certain periods. The blood doth grow vigorous, faith Soranus Ephelinus, (which like the Evangelists, doth measure the spaces and course of day and night by equall hours) from 9 a clock at nights vill 3. a clock in the morning, in which time the blood in Man is con-, cocked and elaborated. Thence is the mind of Man cheerfull at Sun-rifing. Yellow choler is concocted from 3. in the morning, untill g a clock; in which time the naturall faculty separates choler, from blood, and fends it to the gall bladder: Thence a man is prone, to anger. Black choler is elaborated from 9. a clock of the day, till 3, at night. In this time the Liver is purified, and made clean of groffe blood; and this, Nature, as fome fay, ordains for the Spleen. From hence is the mind of Man darkned. Flegme is concocted from 3. at night till nine: For then Supper being ended, concoction begins, to be made in the stomach, and the meat to be liquified. From hence Hegme swimming upon the stomach, and carried to the brain, makes a man fleepy. But if they be over-much, and joyn'd one with an-. other, then they do not keep their times. Moreover, the Persians, by, reason of their moderate exercises being children, grew so dry of body, that they neither spit, nor did blow their noses, nor were their bedies puft up, Varro infragment.

Artic. 3. Of Blood.

Lood is stopt by some, wonderfully: Gesner notes, that Frederick. Duke of Saxony, gave a Toad that was thrust through with a woodden spit, and well dryed in the Sun, and wrapt in Sarsnet, for them that bled at the nofe, to hold in their hands till it grew hot, and so the blood was stopt. A hens chicken will do the same, if the part hurt be thrust into that place where Cocks use to be gelt, a hole being cut open. Platerus 1, 2. devit. c. 5. proved it, and found it fo. Anoble Matron stayd bleeding at the nose, by holding a bit of white chalk under the ring-finger, on that fide the nostrill bled, Forest; 1.13. c. 10. Oforius writes also of Nahodaguea, a Prince in the Kingdome of Malacca, who was hurt with many wounds and fell downs yet not one drop of blood came forth; when he was fiript, and a bracelet of gold was taken off, then it began to run. That stone was faid to have power to stop blood, that was set in it. It is taken out of beafts which the Sinenfes call Cabrifias, Ofor. 1.7. de reb. Afric. et Indicis. That it comes forth of a vein cut, the diffending of the veffels is the cause. For the continuall motion of the arteries added to the yeins, doth presse the veins; but if the veins be opened, the blood comes forth, because there is nothing to hinder it. Hence when a vem is opened, if one fwoond, the blood flops. For the vitall spiritdoth no longer diftend the veffels, Barthalin, Probl. 5. It is observed; that when a man is killed, it will run forth if the murderer be present; but when a man is drown'd, it runs forth when friends are prefehre When you ask the cause, it is either motion and agitation that opens. the orifices of the veins ; or Sympathy and Antipathy: Theorevenge of the person is put for an Argument. He that is grievously mount ded, becomes the Affailer, faith Rhodigin, Thought greedily defires ren wenge at cholor burns fuddenly for it; the blood is presently inflamed with. it, and runs with all its force to the wound, both to foment it, and to revenges, The spirits fly together, and by an inbred leightnesse do fly about the Author of it, by whose heat they continue, and remain for some time, Rhadig. 30 Antiq. c. 12. It was of old thought to be a remedy for the Falling ficknesse, to drink man's blood yet warm. It was the Devil's Invent tion, who delights in the flaughter of mens and to: do them milchief. The Wife of Marcus Antonius: the Philosopher, fell in love; with: a Foncer; the Wizards were enquired of, and they gave counsel to kill him, and that Fauftina thould drink his blood, the next time the day with Cafur. It was fo done, and her love was ended, but the boy, born was of a fighting disposition, and destroy'd the Common-wealth, Jul. Capitolin. Langius reports, that the Son of a certain shepherd was faint-hearted for robberies; but when he had eaten a crust of bread dipt in mans blood, he was flesh'd for all villany. The Cabe mani had this custom, that at Feasts they would open a vein in their face, and mingle the blood that ran forth with wine, and fo drink it, holding it the end of their friendship, to take one the others blood. (But these things belong to the description of wonders in Customes) There is compounded a Lamp of life and death with mans blood, whereof Ernestus Burgravius writes thus: This Lamp or Light once lighted, burns continually, follong as that man, of whose blood it was made, doth live, and at the very same moment, that he dies, it will go out. Knowalfo, that if the flame be bright, rifing highland quiet, that Man feels nothing that troubles his Mind or Body: But if it be otherwise, and the flame rifing, twinckles diversly, or is lower and clowdy and troubled, it gives thee a fign of great forrow and other passions. For perpetually from the coelestial influences bred with the Microcofme, and from the natural inclinations (finge that blood is nourished by the blood of that man, and the body of the fame from the substance of this very blood, from which blood was as it were mutually taken to prepare it) that flame shines according to the flate and habit of that man, in prosperity or adversity, and fo shews it felf : Sennertus and Deodate, call this Pyromantia. and we have been a second of the second of the second of Note that we have the second of the second with the second with the and the contraction of a contraction of the property of the contraction of the contractio ក្រុម នៅស្នាក់ ក្រុម ប្រជាជាក្រុម ខែក្រុម ប្រជាជាក្រុម ប្រជាជាក្រុម នេះ ប្រជាជាក្នុង និង សមានបាន និង និងស្នាបា The book and the first of the new years a construction with the property the Action & Same as the boundary of the second of principle of the proposition of the second of

Artic. 4. Of Urine and Reins.

Any things perswade us, that there is somthing else contain'd in thrines beside the watery substance. For in discass they are made plentifully, though men have drank nothing. And it is obferved that creatures that drink nothing, will make water. Physitians foretell many things by their colours, thinnesse, and thicknesse, And Chymists find falt in Urine resolved. But whatsoever that is, it is call'd Serum, and it is the superfluous salt matter in meats and drinks, and is not fit for nutriment. Salt is hid in meats, to season them; and that plants are full of falt, you may find by distilling. them. It is very well known that divers kinds of falt may be fetched out of Urines. Agineta faith, that artificiall Chrysocolla is made with Urine. Nitre is made of earth, moystned with the Urine and dung of living creatures. Baccins shews the way: His words are. Saltpeter is made now a days by industry of a most sharp Lixivium, that drains forth fromold dung, or rotten ordure, from the matter of Churchyards, and some earths that are rotted together , the sane water being often powred on in modden Veffels. This Lixivium is boyld in great Cauldrons, and Saltpeter is made, long fibres growing hard in the bottom like to falt. Hence Ruffus Ephefinus faid; that Urine was a nitrous humour that falls into the bladder de appel corp human. c. 36. The Arabians write that in the Urine of those are bit with mad dogs, the pictures of dogs may be seen Abenzoar. But that feems to be attributed to the force of the Venom? because it changeth exceedingly a mans constitution, and makes it like to a doggs. For the humours are so corrupted by it, that some little creatures like to puppies are bred in the body, Sennert. 1. 2. p. 2.f. 2.c. 4. Truly we find Worms to breed in the bladder; for a woman voided one a span long; and a noble maid, voided many as great as wiglice, Schenck, 1. 3. obf. Also Charls Count of Mansfield, voided one like a Magpie; Durettu, like a Hog-louse. But one that had the stone of the bladder voided two, with a sharp head, with horns; the back and belly were crusty, and they were black, and like Tortoises, but that their belly was red, Pareus 1.19. c. 3. Holler, de morb. intern. Another voided a living Scorpion; another, thell-fish, Schenk. observ. All know the urmary passage, yet somtimes other things are voided by it. The Sonne of Boninus made water a little beneath the glans; and a Maid of a noble family at the Hague, urin'd her Navel. An old Vine dreffer had it coming forth at an Ulcer of his left buttock; a Souldier Voided it by his hip and thigh; others by their belly. Schenk in obser. Fernel. I. 6. Pathal.c. 13. As for the Kidneys, Gemma faw 3, or 4, Lib. 6, Cyclogn. Wolphius and Columbus, l. 15. Anatom. faw but one. They were feen fastned to the Liver by Holtzapfeling at Aufpurg. The fat of them is fomtimes found to hard and congeal'd that it is almost as hard as a stone, Eustach. de Renib. c. 45. Saxonia law the substance of them resolved into little peices of flesh. Stones also are bred in them of a faculent matter, mingled with a

Of Marrow, Chapisol.)

falt and stony juyce. Somtimes they are very great. A Father general of the Carmelites had a stone in one of his Kidneys, which growing from a large root, was divided into eight branches, according to the forme of the Channels of the urinary Veffels, and the number of them, this excellently refembled the flock and branches of Corall; moreover the fleth much contracted and diminished, with the Veins, fluck so fast to this fique all about, that it had lost its own form, and seem'd to be a thick skim that covered it round. Enflach. ad c. 44. de Renib.

Artic. 5. Of Marrow.

Duine writeth, that a Serpent is ingendred of the Marrow of the L back-bone of a man. The truth of this testimony appeareth by experience, and is made manifest by an example, that we read in plutarch. For the King of Ægypt having made the dead body of Cleomenes to be hanged up, and they that watched it having spied a great Serpent winding about his head, and covering the face in such fore as no bird that preyes upon carrion durst soare thereabouts; the people of Alexandria running thither (faith he) in troupes to fee this spectacle, called Cleomenes a demi-god, and the fonne of the Gods : untill fuch time as the best in knowledg among them had called to mind, that as of the putrified flesh of a dead Oxe, there grow Bees; of a horse, Wasps; and of an Asle, Beetles: so likewise, when the matterie substance which invironneth the Marrow, gathereth together and thickneth, Serpents are ingendred thereof. Camerarius faith, he hath oftentimes feen in a well-known place of Germany a yong gentlemans tombe, who was buried in a Chappell where his predecessors lay: It is faid, that he was the fairest yong man of his time; and being troubled with a grievous sicknesse in the flower of his age, his friends could never get to much of him (no more than Agefilaus friends could get of him) as to suffer himself to be represented in sculptute or picture, to serve for posteritie : only this, through their importunitie he agreed unto, that after he should be dead and some daies in the ground, they should open his grave, and cause him to be represented as they then found him. They kept promise with him, and found that the Worms had half gnawne his face, and that about the midriffe and the back-bone there were many Serpents. Upon this, they caused the spectacle (such as they found it) to be cut in stone : which is yet at this present to be seen among the armed Statues of the Anceftors of this yong gentleman. A notable example of the fragilitie of mans body, how faire and goodly fo ever it be; and that all the fplendor and magnificall shew that may be seen therein, is nothing else but rottennesse and Wormes-meat : as the Author of Ecclesiastics faith; when a man dieth, he is the heritage of Serpents, Beafts and worms. Which is confirmed by a certaine infeription graven upon a combe at Rome in Saint Saviours Church, where are two Latine Verles to this effect.

when in my bodies prison I was pent, I was compact of [hamefull filth and ordure: Now to this lower dungeon being fent, To crawling Wormes I ferve for food and pasture.

Saint Bernard aymed at the same when he said, That man was nothing but stinking seed, a fack of excrements, and the food of Worms.

> Of bodies dead incender worms, of wormes a rotten flink, And then as horrible a state as mind of man canthink : This is our very case, for all our pride and hie conceit, Nor can we flay the flroake of death when he our life doth threat.

So then, nature ingendring of the carrion of our bodies, a Serpent, or a Dragon, it seemeth to shew unto us (as it were with the singer) the author of our calamities and corruptions; as also the enemie that hath an unreconcileable warre with us: to wit, that old dragon and serpent, who not only layeth traps for the living; but besides never leaveth rending and devouring those that be dead and buried.

Article 6. Of Sweat.

Riffotle reports, that some have sweat blood. And Fernel. 1.8. de part. morb. c. q. observed, that sometimes blood will run forth of the ends of the veins that end in the skin, in many places There was one, that every month about a pound of blood, run forth of a vein opened, by the skin, near the lower part of the Liver; when it was voided, none could differn where it came forth, Beneven. Lastly, the President of Mons Marinu, when he was besieged by Augustus the base son of the Prince of Salucia, and was called forth as it were to parley, and then held prisoner, and he was threatned with death, if he yielded not up the place, was so frighted with this undescrived death, that he sweat blood all over his body, Thuan. 1.11: Mistor. The causes are two, saith Aristotle. The thinnesse of the blood, the rarity of the skin, and the opening of the pores. To this may be added, the weaknesse of the parts that serve for nutrition, if the retentive faculty hold not, and the expulsive cast forth strongly. Anno 1486, there was a kind of disease call'd the English Sweat; It first fell out in England, and in Germany Anno 1529, it so spread, that it brake off the Treaty of Zwinglius and Luther. The force was fo great, that it killed men in 24 hours, or elfe they recovered if it did breathe forth by sweat, Thuan. lib. 6. Physicall observations thew, that one recovered who went into a very hor oven, and sweat violently. But as many as car of the bread was baked in the same oven were all confuned by a confumption, Riqu. de febre sudor in Epist. And though Sweat, when other figns are good, be a Token of a good CriChap. 3. Of insensible Transpiration.

fis, yet a cold iweat is certainly mortall, for it comes from the decayd heat of the folid parts. When as it breaks forth from a great feavorish heat within, it is cooled in the Externall parts that are now void of all heat. Whence our Hippocrates, 1. 4. Aphor. 37. faith, If cold Sweats come forth upon a hot Feaver, they fignifie Death; but if the Feaver be mild, a Chronicall difeafe.

Article 6. Of insensible Transpiration.

S in the great World, vapours are drawn forth from moyst places by the heat of the Sun and the Stars: fo in Man, the lite le world, we must grant the same is caused by force of the inward heat. Yet lest they being united in mans body, should cause distemper, and make Feavers, God made mans body open and full of pores, through which the vapours breathe out, and that fo finely, that the fenfes can fcarce perceive them. Yet santtor, santtorin, did obferve and weigh them as fine as they are. Hence grew, that Physick is called Statica, wherein amongst other Aphorismes these are con-

I. Insensible transpiration is far more, than all sensible transpirations

put together.

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II. If the weight of the body begins to increase more than usually, without any greater addition of meat or drink, or retention of fensible excrements, there is a flopping of the pores.

III. Perspiration that cures the body of a disease, and of that unprofitable weight, is not that which is made by fiveat, but by that invisible breathing North, which in winter in one naturall day can fend forth above 50 oun-

IV. After fleep, before he words any fenfible Excrements; a man feels himself lighter; for he is so, about 3. pounds weight more than ordinary.

V. In one night commonly a man voids 16 ounces of urine, more or leffe, 4. ounces of excrements by fiege, and above 40 ounces by insensible transpiration.

VI. Many men void more in one naturall day by infensible transpirations

than they do by their belly in 15. dayes.

VII. If cold fall upon the Ayr in Summer, and a man drink hard that day, it will hinder a third part almost of insensible transpirations and if Tenfible transpiration do not help, it will easily dispose a man to corrupt Maz mours or Cachexia.

VIII. In Summer temporate bodies are lighter than in winter about three pound weight.

IX. In Summer if cold fall upon heat, the same day about one pound of excrements are kept in, and cannot breathe forth.

X. From the Autumnall Equinostiall, to the Summer Solftice, we breathe forth above one pound weight leffe every day; and from thence to the Vernall Æquinors we begin to breathe them forth more freely.

XI. The stomach fill dwith meat, if it perform the first consoction whilest

Artic.2.

we fleep, the perspiration of that night commonly amounts to 40 ounces; but if it do not end it, it comes to about 18 ounces.

XII. Meats that nourish much, except wether-Mutton, from Supper to

Dinner, ufe not to breathe out above 18. ounces.

XIII. Plenty of ments, that nourish but little, in one night may breathe

forth above 40 ounces in most men.

XIV. wether-Mutton is easily concolled, and will breathe forth; for in one night it will come forth by insensible transpiration 3. ounces more than other ordinary meats.

XV. Unquiet rest hinders at least 3. ounces of ordinary transpira-

tion.

XVI. I have found that insensible transpiration in many men will breathe forth in 7, hours 40 ounces, when they sleep; and 20 when they wake, or thereasouts.

CHAP. IV.

Of Increasing.

Article 1. Of Gyants.

Here are two forts of Gyants. For they are either people of a Country; or else Monsters, by errour of the matter, or of the Agent. Goropius Becanus denyes that ever there were, or are any of the first kind. But the holy Scripture gives testimony, and there are evident examples, and modern experience confirm it. For the Spies, Numb. 13. v. 33. say expresly, we saw Gyants the sons of Anak, which come of the Gyants, that we feemed in our eyes like to Grashoppers, and fo we were in their eyes. And what are the names of the Emims, and Zamzummins; but titles of Gyants? Procopius testifieth, that Justimian wondred at the Goths of old for their vast bodies. Some think they had their names from Gygas, Bartholin. de Pigmais c. 5. Mela. 1.3. c.4. writes, That amongst the Indians there were men so tall, that they rid on the greatest Elephants instead of horses. The Patagones in America are certainly known to be 12. spans high. Pigafetta saith, he faw there amongst the Canibals a Gyant that was taller than other men from the girdle upwards. But about the straights of Magellan near the Antartick Pole, he faw men whose neck was half as long as a mails Arm; and he affirms it exceedingly. We may place Goliah, and fuch as are spoken of, 2 Sam. 27. in the number of the last kind of Gyants. Augustine saw the grinding tooth of one, that, cut into pieces, would make a hundred teeth of ours, Lib. 15. de civitat Dei, c. 9. Some were found in Drepanum in Sicily, each of them weighed 3. pound, Pulgofius I. 1. c.6. Lucius Flaccus and Metellus in the Cretian Warre found some of their bodies that were 30 cubits. In the fame place the earth opening by an Harthquake cast up one 40 cubits high,

high, Plin. 1.7. c. 26. In another place amongst the waves there was a Maid seen 50 cubits long, and she was 4. cubits broad between the shoulders, she was clothed in a purple garment, Vincentius histor. Natur. 1.31. c. 25. But what saith Bertius of another in his description of Zealand. Our Chronicles relate, from Gulielmus Bonus, Earl of Holland, unto the Marriage solemnities of Charles the fair, King of France, a woman was brought, of an unusuall stature, born in Zealand, in respect of whom verytall men seemed but dwarfs; and she was so strong, that she would carry two barrels full of beer in both hands, each of them weighing 40 Italian pounds; and a beam that 8 men could not lift, she would weeld at pleasure. He that desires more, let him read the Book of Johannes Cassio de Gygantibus: I onely mention some of the chief, commonly they that seed abundantly do not grow so beautifull. The choaking of the natural heat, is the cause, with abundance of moysture. The same happeneth in discases, Lemnius in occult.

Artic. 2. Of Pigmies.

Promies have their name from their cubital stature. For moyers is the distance from the bending of the elbow to the top of the little finger. The Hebrews call them Gammadim, from Gomed a cubit. There were two forts of them, some very little ones brought up in Princes Courts for sport; born by accident as Monsters are. Some are a people that live some where, or else they did formerly. I need not prove the former. Under Theodofius there was one fo small in Egypt, that he feem'd no bigger than a Partridge; he was very wife, and had a pleasant voyce, and spake clearly, shewing the marks of a generous mind, he lived 20, years. Nicephor l. 12. Eccles . histor. c. 37. Johannes Cassinon de Gygant, p. 66, faw two at Lyons, one of them had a long beard, and was of a very beautiful countenance, some of our Chamberfellows law at Falconburg, a mile from Leyds the last yeare, a female a cubit long, There was a Dwarf at the Marriage of the Duke of Bavaria, who was compleatly arm'd, with a fhort Spear, and his sword girt about him, and he was hid in a Pie that one could not fee him, and he was fet upon the Table , and he brake the crust of the Pie and came forths and drawing his fword he danced like a Fencer, and made all the people laugh and admire him, Plater I. 3. Observ. At Drefda in the Caffle of the Elector of Saxony there is to be seen the Skeleton of a dwarfe, not a cubit high, with fo folid and well proportion'd bones, that one would think they were the bones of an Embryo. Bartholin de Pigm. c. 6. In Marchia and Lufatia, there was an entire skeleton found, with the skull , 2 foot and 3 fingers long , Leonhardus Turnheuserus in German Pisone memorat. 1.7. c. 84. Now because Cossins of the dead were often dug up in those parts, the people think the Pigmies make them under ground. In Winter they lye 20, foot deep, about Whitsontide one cubit, it is the opinion of the people, Multitudes of Authours may perswade us to beleive that there was a Country of Pigmies : amongst the rest Cresias Indieus writes thus : Middle India hath

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harh/blackmen, that are called Pigmies, and they speak the same land guage, the relt of the Indians do; they are very small, for great part of them are but half a cubit high, and the greatest of them is not above two cubits. Their haire hangs as farr & somtime below their knees & they wear their beards longer than any men. And so soon as their long beard is grown, they use no clothing, but they let their haire fall backwards much below their knees, and their beard covers their foreparts. Then when they have covered their whole bodies with haire, they girt themselves about with them instead of garments. Also their Yard is so thick and so great, that it will come down to their ankles. They are also flar nosed and deformed. Their sheep are no bigger than our Lambs, their Oxen and Asses are like our Rams in greatnesse, their Horses and Mules, and other creatures to carry burdens are no bigger. The King of the Indies hath 3000 of these Pigmies in his company. For they are most cunning Archers. They are very just, &use the same Laws'the other Indians do. They hunt Hares & Foxes, not with Dogs, but with Crows, Kites Rooks, & Eagles, There is a lake amongst them that is 800 furlongs about, upon which, when the wind troubles it not, oyle swims which some of these men take away from the middle of it in boats, swimming through it with little ships, and this they use. They use also oyle of Sesama & nuts, but the best is taken out of that Lake. So far he describes them. Antonius Pigafetta found some of them in an Island of the Moluccas, but Jovins 1, 3, de rebus Muscovit, saith, they are in the Island Caphi, beyond the Laplanders: Liastly Odericus de reb. Indic. 1. 3, saith, he saw some but three hands breadth, and that they begat Children at five yeares old.

CHAP. V.

Of Generation.

Article 1. Of Seed.

He Seed, the most noble principle in Generation, resists many injuries. That appears even from this, that the essence of many things can remain entire in many changes, & under another form. Let a Goat be fed with many purgative herbs; let the nurse drink the Goats-milk, and it will purge the child that fucks her: yet in the Romach of the Goat those herbs were changed into Chylus, and the Chylus was made blood in the Liver, and from blood milk in the Udder; when the nurse drinks this milk, again Chylus is made of it in the Romach, blood of this Chylus in the Liver, milk of this blood in her breaks. I received it from one, faith Sennertus, worthy of credit, de consens. et dissens. that from the froth of a mad dog that stuck upon a cloath, little creatures were bred like to whelps. It is wont, being retain'd in Virgins and lufty Widows, to get a venomous quality, by corrupting in the matrix, and it will cause strong symptoms. For a malignant

vapour flying up, pressent the Intestines, the Liver, and the Minests and makes the breathing fo fmall, that it can hardly be perceived, When any thing hangs over the parts of the privities or, Navel; to, ward the Diaphragma, and ascending to the orifice of the stomach is perceived, there followes presently panting of the heart, aking of the heart, swimming of the head and palenesse. Whilest this continues, a woman falls suddenly down, and is deprived of breathing, species, and fight; (many have layn fo 3 dayes; others have been burjed as though they had been dead; Vefalius diffected one to his great diffior nour) and sometimes a woman is affected with the Epilepsie, Convultion fits, and raying; and, as the malignant vapour fall on this or that part, so is the disquieted. Sometimes wonderfull voyces are heard out of their bellies, crying of frogs, histing of Serpents, eroking of Crowes, crowing of Cocks, barking of dogs; which Gentha Frilius l. 1. c. 6. Colmocrit, thinks they do vary as the passages and the spirits that break forth are proportioned. The Daughters of the President of Roan did alwaies laugh, and would not cease from it, Holler, de intern. morb. It happens sometimes, that imagination being burt, they grow fick of melancholy, and think the Devill is prefent; also they fall into the fury of the womb, and wandring melancholy: this principally is of force in February, and is heaped up in winter. When they are so affected, they will speak divers things, and divers wonders in strange tongues. Physicians say, they will defire to lye with those they meet; they will talk in the night, and hide themselves in tombs, Henr. Petreius Nosolog, Harmon, Discourf. 2. We read, that the Virgins of Milesus affocted with this difease, offered violence to themselves. The order of formation is this; First of all, the membranes that furround the Infant are made; For in these the nobler part of the seed is included, and the heat of the spirit and feed is covered after: After this all the spermatick parts are delineated; and as their dignity is, so is each of them made in its order. Yet some are perseded sooner, some later. Hence at the first time of conception there appear 3. bubbles, as it were, swelling with spirits, which are the rudiments of the Brain, Heart and Liver, and an innumerable company of threds, that are the beginnings of veins, nerves and arteries, and, as it were, the foundations of the folid parts, Sennert. l.1. Institut. c. 9.

Artic. 2. Of menstruous Blood and Wilk.

He coldness of Women, & generation is the cause that all blood L is not wasted in them, yet because they are not alwaids with Child, it is then collected in the vessels about the matrix, and is cast forth every month, that they may not feel the burden of it, wherefore Physicians call them monthly terms. They begin to be cast forth, when they are young Maids, the bottom or neck of the matrix determins the manner of the flux. It is observed that a fresh maid, with great brefts hanging down, which had hair under her arm-pits, and

Artic.

Artic. 3. Of the Generative parts.

Chap.5.

Shall speak but little of these, and with a mind that is model, and with such a mind they ought to be read. Histories relate, that Sylla had but one testicle; and Philip Landgrave of Hasia had 3. Thuan. 1, 41. He addes, he was so full of juice for venery, that when he used onely his VVise, and she could not suffer him so often, as he would; he being otherwise a chaste man, by consent of his wife, and relating his mind to the Priests, he was forced to take a Concubine besides. A Prince of Germany who was emasculated by a Cannon bullet, made that member of filver, and with that he got many children, Nancel. Analog. Microcofm. 1.7. A Bull that presently leapt on a Cow, to foon as he was gelt, got her with Calf, Aristotle. And Albertus relates of an Eunuch that used copulation. One was born without a genital member, yet with the Scrotum and testicles; another, without the parts of either Sex, Schenkins in offervat. It is certain, that Virgins have a virginall Cloyster. But there is not a little. skin placed arthwart in the middle of the matrix, that makes the neck thereof impassible: but four Caruncles, placed round, with small fibres comming between them, till they are broken by force, and they are circularly inrivelled by course, leaving a hole in the middle of them, that the terms may run forth from the matrix, Ludopic. de Gardin. Anatom. c.99. Avicenna l. 3. sen. 21. makes mention of a part found in the privity of a woman, which he calls the wand, or Albathara. Albucasis 1,2, c. 7. calls it Tentigo; and sometimes this hath grown fo big, that women that have it, could copulate with others like men, Fallopius. Cafarean births shew, that the womb may be cut sometimes without danger. Physicall Histories testifie, that one had her Matrix cut out for her Lascivionsnesse, yet without danger of her life. Rhodiginus faith, he faw a Maid foretell future things by her matrix. Chryfostome saith, that one of Apollo's Nuns did the like.

Article 4. Of the Female Sex.

The all know there are two Sexes: the male the superiour; and the semale, inseriour almost in all things. God gave the man the Superiority, and commanded the woman to obey. If we confider her body, the shewes by this, her condition is the lowest's chiefly if we confider her temper and excrements. Hence, because they fend forth fad vapours, by reason of their courses, they will make Nutmegs and Corall, look foul and black. But if a male carry the first it will grow fatter, the latter will look more red, Lemnius 1.2. c. 12. de occult. They are casily angry, and their choler kindled, soon will boyl over; and for want of hear, they are not fo ingenious. It is now the common opinion, that this fex is more luftfull than men are. Yet no man will deny, but that there are degrees in this. For in pale lean peoples

people, the genitall parts are filled with a tharp biting humour, and desire to be moythred. Lemnius 1.2. de occult. c. 37. conjectures, that they are more venereous than red far people. Rue makes men lesse, women more lustfull. Secundus Philosophia, when he was perswaded that all women were naught, and having made triall, found it so in his own Mother, not that he lay with her, but found he would give him leave, being asked by Adrian what a woman was, answered, Mans Confusion; an unsatiable beaft; a continuall trouble; a battel without end; the shipwrack of an incontinent Man; the slave of mankind. Yet he what it will be; This sex is not so much to be despised: but there are some found above this condition. In the Siege at Brunswick a woman playd the Souldier; another did the like formerly in Calar's Camp, Camer. Hor. subcif. c.76. Cent. 3. Eudoxia the Wife of Theodoffus the younger writ Poems; and there is extant of her making. Homers fragments concerning our Saviour. Proba Falconia did the like out of Virgils Verses. Jane Grey, understood Hebrew, Greek, and Latine. Olympia Fulvia Morata, could make verses Greek or Latine: and when the turned to the Orthodox Religion, the gave her felf wholly to Divinity. What shall I say of Elizabeth Queen of England? the by her vertues put all the world into admiration; and the fo amazed Pope Sixtus, that he faid, That she onely with Henry the Fourth of France was fit to give counsell concerning the state of the whole Christian world. Examples testifie, that women in time were changed into men. At Antioch a famous Maid being married after she had born a child, became a man; at Mevan, another also became a man. At Rome one, the same day she was married, was transformed, Volat.1.24. Comm. Urbin. The fame happened to Amilia, after the had been married 12 years. See more examples in Schenkius,

Artic. 5. Of the noise of the womb.

Ome have observed, that Children have cryed in their mothers wombs, and so lowd, that they could be well heard. In wein-richius of Monsters, you shall find Examples. A Poet writes thus:

twonder it is, a Child did fadly cry, which was unborn, and in the womb did ly. The cause was this, it griev'd, and with its might Strove to come forth, to see the worlds great light. Or else perhaps, it show'd the earnest care To help its Parents that now weary were.

Some think, that this portends some hurt to the child, or to the mother: others think, that this is contrary to reason and experience. To Experience, because there is no certainty that any such thing happened amongst the old Philosophers. To Reason, because there can be no cry heard without drawing the ayr by the mouth, and without

the beating of the ayr by the sharp artery when we breathe it forth, and without a certain forming of it by the mouth, and the Palate. For being there is no place for a reciprocall course of the ayr, in the veins and arteries, and the Insants urmary passage, that are filled with other things; nor for so great abundance, that a passage should be made by the heart; it cannot enter by the navel, by reason of the notable danger of heat, nor can it be admitted by the matrix: to say nothing, that all are full of an excrementitious glutinous matter. Libarius supposeth all things required for breathing in the Thorax to be made, and he thinks that the internal aereal breath made of the humours by the active heat, and shut up within the house where the child is, and also contain'd in the capacity of the Lungs, being pressed forth by the Child, may serve the turn. See dife. de vagitu, &c.

Artic. 6. Of numerous Births.

IN the fingle faculty of generation, that man hath, there hap-Apens variety, if we confider time and number. Some are born in the fift month, some in the fixt, some in the 7th, 8th, or 9th, and some in the tenth, 13th. 15th. Paschal. in Biblio. medica faith, one was great with Child 23 months, another 2 years, Aventinus. 1.5. Annal, This Child was born speaking; One was with Child four yeares, Mercurialus. Yet Physicians set the 9th and tenth months for the time of natural birth, when the Child is grown great and wants plenty of nourishment, and the place where he lyes is grown too narrow. Those that are born in the fift month, are very feeble, as a maid was that Valefeus de Philof. facra c. 18. mentions, who was more flender and thin than women-kind use to be. Those that are born in the 7th month are weak, and suspected, not to be perfect in all things; few live in the 8th month, the striving to be born in the 7th month, hath made them weak as some think. For number some will bring two, three, four, oft times; and fome will exceed this, that it is miraculous. An Ægyptian, in Gellius l. 10, c. 2. had five at a birth. The Mother of Lamifius King of Lombardy had 7, Sigebert in Chronic. The Counte se of Quenfurt had 9. Betraff. 1. 4. of the Princess of Anhalt, A woman that Albertus speaks of, miscarried of 22, another of 70, another of a 150. The matter was proved by cutting the little coats they were wrapped in, Calinus 1. 4. c. 25. The Wife of Irmentrud Isenbert, Earl of Alters, was delivered of 12. Margaret the Wife of the Earl of Virabollai of 36, Cromer, I. 11. Margaret the daughter of Florentius Earle of Holland had 365, Ludovicus vives in colloquiis. Maude Countesse of Henneberg under Frederick the second had 1500. Aventin. 1. 7. annal, Cuspinianus saith, 350. But if you take them at feverall times, you shall find wonderfull examples of fruitfullnesse. Priamus by Hecuba had 19, Children, and 31, by other Women. Artanernes had 106, Herotimus, 600, Conradus Duke of Moscovia had So. The King of Giloto (it is an Island amongst the Miluccus) had 600, Pigafetta of Ziamb, 325, another had 650,

650. Martinus Polus 1. 3. c. 6. faith, he faw thefe living. Ludovicus Vives faw a Country man in Spaine, whose Children whil' ft he lived. had filled a Village of above a hundred housholds. And in our times Ah my daughter, tell thy an old Wife spake of her ofspring, thus. daughters daughter to lament for her daughters daughter. Sphinx.c. 17.

Thomas Fazell writeth, that Iane Pancies, who in his time was maried to Bernard Belluard, Sicilian, of the citie of Agrigent, was fo fruitfull, that in thirtie child-beds she was delivered of seventie and three children: which should not seeme (faith he) incredible, seeing Aria storle assirmes, that one woman at four births brought forth twentie Children; at every one, five. Albertus Magnus writes, That a woman of Germanic had two and twentic abortive Children at one time. all having their perfect thapes : and another woman, feventie. And besides, that another woman delivered into a bason a hundred and fiftie, every one of the length of ones little finger. Erefmus, Vives, and others, have written of the strange deliverance of the Counteste of Henneberg. Lewis Guicciardin in his description of the Low-Countries fetteth down the same storie, taken out of the ninth book of the Annals of Flanders, composed by Guido Dominicus Petrus: His words are these; A certaine poore woman, brought a bed of two Children, prayed the Countesse to give her some assistance in her necessitie: but the Countesse did not only send her away empty-handed, but charged her that the was of an ill behaviour, faying that it was a thing against nature (in her opinion) for a woman that is honest to conceive by her husband two Children at one birth; and therefore that this her deliverance had bewraied, that she had lewdly abandoned her selfe to fome others. The poore woman moved with this reproach and ignominious repulse, and of the other side well assured of her honest carriage, made earnest request to God, that for the proofe of her innocency, and of the faith which He knew the had kept inviolably to her husband, it would please him to grant that this Countesse might have so many Children at one burden, as there were daies in the yeare: which within a while after came to passe. And he addeth, that these Children were as big as Chickens new hatcht, all alive, and found, and died within a little while together with their mother: to whom this Epitaph following was crected in the Monasteric of Lodun, where there were Nunnes of the order of S. Bernard, and it is hard by the Hague in Holland.

THE EPITAPH.

The daughter of the right noble Lord Florent Earle of Holland, and of Mawd his wife the daughter of Henrie Duke of Brabam, fifter of William King of Almaine, named Margarer, of the age offortie two yeares, was brought a bed upon the Friday before Easter, in the yeare 1276, at nine a Clock in the morning, of three hundred, three-score, and five Children, as well malo as female; who after they had been all baptized in a great bason by the reverend Bishop Don William, Suffragansin the presence of some great Lords and notable persons, the male Children being called by the name of lohn

John, the female by the name of Elizabeth, dyed all of them together with their mother; their fouls returning to God, to live eternally, their bodies reft-

ing under this Tombe.

The like storie well neere is reported of the beginning of the noble race of the wolfes. Irmentrudes the Wife of Ifenbard Earle of Altorf : having given her selfe the reines so far, as to accuse of adulterie a woman that had three Children at one birth, being not able to believe that one man could at one time get so many Children, adding withall, that the deferved to be fowed in a fack and thrown into the water yea, and accusing her in that regard to her husband : It happened that the next yeare the Countesse felt her self with Child, and the Earle being from home, the was brought a bed of twelve male, Children,, but all very little. She fearing the reproach of adulterie (whereof yet the was not guilty) and the punishment of like for-like, commanded that eleven of them should be taken and cast into; a River that was not far from the house, and that one should be saved to be brought up. It fo fell out that Ifenbard met the woman that was carrying the little infants to their death, and asking her, whither the went with her paile; he had this answer, that she was going to drown a few baggage whelps in the River of Scherc. The Earle came unto her, and (for all the refistance the woman made) would fee what was there, and then discovering the Children, pressed, her in fuch wife, that the told him all the matter. Then he caused them to be nourished and educated secretly, and so soon as they were grown great and brought home to him, he fet them in an open hall besides him whom his wife had brought up: and then being all known to be brethren by their faces, and their other fashions, their mother moved in conscience consessed all the fact, and obtained pardon for her fault, In remembrance whereof the honorable race of the wolfes got that name, which ever fince it hath kept.

Article 7. Of monstrow Births.

Ature in working intends her own businesse; but because divers I shiftacles may happen in respect of the first agent, the seed, the constitution of the Heavens, the formative vertue, imagination, heat, it is no wonder if the erre fometimes. And though there be Monsters almost in all mixt bodies, yet those Monsters that happen amongst living creatures are chiefly remarkable. And fuch fall out either in quantity or quality. A woman of Tross, Anno 1569, brought forth twins joyn'd by the heads , Pareus l. 24. oper. c. 2. Valeriola locor. commun. I. t. c. 8. faw at Avignon one with two bodies all from the neck. Munsterus saw two Maids joyn'd together, with their force heads one against the other; and when one went forward, the other went backwards. At Florence there were two boyes, one was an entire body, the other was fastned by his shoulders to the others stomach, that all his head feemed to be thrust into it; and when the former fucked, he moved as if he fucked also, Benivent, de reb. abdit, Pareus 1, 24, c.2. Anno 1530, saw the same at Paris, in a man of 40 years.

and others.

years. About the end of the Empire of Lotharius, a certain woman bore a child like a man and a dogg; their bodies joyn'd entirely, and they were fastned at the ridge of their backs, Lycost, lib. prodigior. In Scotland there was one that was a male for the nether parts, but above the navell it had two members, distinct both for use and in shape. This Monster was taught the Musicall Art, and learn'd many Languages. It held confultation, and when they differ'd, they would chide and quarrel; it lived 28 years. And when one body dyed many dayes before the other, the other that lived pined away, half the body being putrified before, Buchan. in histor. Scotica. Lastly, in former times there was a child born at Cracovia from noble Parents. that was terrible to behold, with flaming shining eyes; the mouth and nostrils were like to an Oxes, it had long horhs, and a back hairy like a dogs, and faces of Apes in the breast, where the teats should stand; it had Cats eyes under the navell fastned to the bypogastrium, and they looked hideoufly, and frightfully, and the heads of dogs of both elbowes; and at the whirlbones of each knee, looking forwards; It was splay-footed, and splay-handed; the feet were like Swans feer, and it had a tail turn'd upwards that was crooked backwards, about half an ell long: It was born and lived four hours, and then spake thus; watch, the Lord your God comes; and then it dyed, Peucer. in Tetratofc.

To this may be added, the stony birth at Agendicum of the Senones, that was carried 28 years, and was cut out of the mothers womb, when she was dead. It is seen to this day at Agendicum, for a miracle, and is not corrupted, Thuan. 1.76. Histor. He that would hear more, let him read Bauhinus de hermaphrodite, weinrichius de monstris,

Article 8. Of the recompence Nature makes to Monsters.

IT is commonly said, that those that are deficient naturally, are marked for some malignant qualities: and this is sometimes found to be true; but it is most false, that it is alwayes so. For to say nothing of the diversity of parts, which Lemnius adviseth us to take notice of: such is the force of education, that it made Socrates good, that would have been bad. Moreover, Nature is so indulgent, that, as if the were ashamed of her mistake, the largely recompenseth her errour with other endowments. Count Atansfeld that fail'd in fight, could by touching, know white from black, Keckerm. in Phylicis. Hamar, a Captain of a Caravan, would know where he was by onely smelling the fame, Leo African. A Preacher in Germany that was blind from his nativity, chose the fairest of three Sisters, by taking her by the hand, Camer. Hor. fubcif. Cent. 3. c. 80. Cicero faith, Homer was blind; we fee not him, but his Poetry. His words are, Tusculan, 5. what Country, what place, what Town of Greece, what form, what fight, what Army, what rowing, what motion of men or beasts, is not so represented by him, that what he faw not, he described it fo, that we might fee it? Didymus AlexanAlexandrinus was also blind from his childhood, who prosessed wifdome divine and humane, which he learned, Ruffin. l. 11. 6.7. Ecclef. biftor. What thall I fay of Thomas Schweikerus ? Posthius a Post, and a famous Physician writes thus of him,

Thomas by nature wanting arms, with's feet Performs all things, youl'd wonder for to feet; with's feet he eats and drinks, full well; and then, With's feet he turns his books, or makes a Pen With's feet to write, and paint doth understand, No man can do it better with his hand. Calar Emilian, as flories mention, Admir'd, maintain'd him, with a Pension.

Georgius Pictorius Villinganus I. 4. Sermon Convival, tellifies, that he faw a Spaniard born without arms, fo cunning with his feet, that he could fpin, or use the neidle curiously, as the cunningst woman could with both her hands. He could fo wield his arms, that no Souldice could match him; and shoot in a bowe, that he would never misse the mark; and with one stroke he would break a thick log. To conclude, Keckerman ipeaks of a Schollar, l. 1. Phylic. c.4, that had but one little finger on each hand, and his feet were triangular without any toes, and he had more force in one finger, than others had with five; he writ curiously and swiftly, and stood so firm, that in slippery places he would feldom flip. Also Pliny may cease to complain of nature, that is a bountifull mother to all; and recompenseth a delect

with more benefit.

Camerarius and some others being once at Combourgs in the house of Erasmus Neusteter, a wise and vertuous gentleman of Germanie, he entertained us with the greatest kindnesse that could be devised, and fent to a place not very farre from them for one Thomas Schweiker, a young man of one and thirtie yeares of age, descended of a worship. full house, and borne without ever an arme, who did with his feet all that a readic man could do with his hands, so that himself affirms ed he was recompenced with one gift in stead of another. Having set himself in a place equall with the heighth of the table whereon the meat was placed, he took a knife with his feet, begins to cut bread; and to cur meat, which he carried with his feet to his mouth, and likewise the cup, as easily as another would have done with his hands. After dinner, ne begins to write examples in Latin and German letters, so straight and so faire, as every one of us defired to have some of them to keep as a special monument. Being requested, he did with a penknife make penns, very good to write with, which he gave us. While he was thus a doing, I marked diligently the making of his feet, and faw that his toes were long, fit to take hold of things; and to behold them a farr off, one would take them for fingers; for his thighs and legs, he kept them mannerly covered with his Cloake. This fight (which we had never feen before) was no leffe pleafing than strange to us; as it was also at another time to the Emperor Maximilian the second, who passing that way, desired to see the man; and having noted in him (nor without wonderment) the strange recompence of Nature, he dismissed him with a richgist. Of late there hath been seen a man without armes going about in Germanie. who had learned by custome turned into art, to handle a fword, and to flourish it about his neck; to fling halberds, and to do other strange things so nimbly, and so surely withall, that he would most commonly hit the marke; and all other duties of the hands, he did them with his feet. But the end of his life shewed that he was a deceiver and a wicked person: for he was broken upon the wheele for his robberies and murders.

We have at Nuremberg a young Man and a young Maid, borne of one Father and Mother, of agood House, and well known, that are endued with a fingular quick conceit: for although they be deafe and dumb by nature, yet can both of them read very well, write, cypher, and cast account. The young man conceiveth at first by signes that are made him, what he is required to do. If his pen be wanting, by his countenance he sheweth his thoughts, being the quickest and cunningest at all games both at Cards and Dice, that one can find among the Germans; although there they use great advisement, and bemarveilous readie and quick. His fister passeth all other maids for working with her needle all kinds of Scamstrie, Tapistrie, Embroiderie, &c. Buramong all the other wonderfull recompences of nature, this is remarkable in them, that most commonly as soon as they see ones lips stirr, they understand his meaning. They are oftentimes at Sermons, and a man would fay that they draw and conceive with their eyes the words of the Preacher, as others use to do with their cares: for, they will oftentimes (no body ever teaching them, or fetting them any Letters or Copies) write the Lords Prayer and other godly prayers, know by heart the texts of the Golpels that are read upon holy-days, and write them readily. When in the Sermons the Preacher maketh mention of the name of Jesus, the young man is readic before any of the hearers, to take off his hat, and to bow his knee with all reverence; So carefull is nature, like a good mother, to make amends for a fault, that none should accuse her to be a step-mother i for, what she taketh away in some of the senses, she alloweth in the rest, as appeareth by Didymus Alexandrinus, of whom Russinus writeth, that he being blind, after he had humbly recommended himself to God, spentall his time in hearing, insomuch as by his diligent attention he attained to that which others obtaine by reading; and by the direction of the holy Spirit, became so skillfull in divine and humane learning, that he was excellent among the Divices of his time. Moreover, our Ancestors have seen Iohn Ferdinand, a Flemming, a blind and poor foul, a Spaniards fon, who overcame so happily these two difficulties (very crosse to all, especially to learned men) that he became not only a very learned Poet and Philosopher, but also so excellent a Musician, that he played upon diChap.6. Nature makes to Monsters.

vers kinds of Instruments, to the great pleasure of the hearers; and besides, he made good songs and full of musick, of many parts. Ano. ther, named Nicafius of werd, borne at Macklin, excelled him : for falling blind when he was three yeares old, and not being able before learne any one letter, he so profited in the knowledg of Philosophy both humane and divine, that all men were ravished with hima Having proceeded Master of Arts at Lovain, and afterwards being made Principall of Macklin Colledg, where, he discharged his duties passing well; he ascended a while after to the degree of Licenciat in Theologie, and though he were blind, he read, and preached openly. Furthermore, being made Doctor of the Laws in the University. of Colen, he read there, and expounded the Civil and Canon Law. repeating by heart the texts which he had never read, and at last dis

ed at Colen in the yeare 1492.

We will conclude this Chapter with an example of one borne. blind, in whom nature made supplie of that defect with a marvelous recompence otherways. The story is mentioned by Antonius de Palermo, thus: I learnt (faith he) of King Alphanfus, that there was a Sicilian borne blind, living fill at that time in the Civic Gergento. called in old time Agrigentum, who had followed him oftentimes a hunting, shewing to the Hunts-men (who had their fights well ynough) the retraits and repairing places of the wild beafts. He added further touching the industry of this blind man, that having by his sparing and scraping, gotten together about five hundred Crowns, which put him to a great deale of care, he resolved (at last) to hide them in a field. As he was making a hole in the ground to that end, a gossip of his being his neighbour, espied him, who so soon as the blind man was gon, fearched in the earth, found the money, and can ried it cleane away. Two or three dayes after, the blind man returning thither to visit his cash, and finding nought there; like one altogether forlorne, he frets and torments himselse, and after much debating and discoursing concludes, that no man but his gossip could have played him fuch a trick. Whereupon finding him out, he thus began to fay unto him; Gossip, I am come to you to have your opinion: I have a thousand Crowns, and the one half of them I have hid in a safe place; and for the other halfe I know not what to do with them, having not my fight, and being very unfit to keep any fuch thing, therefore what think you; might I not hide this other halfe with the rest, in the same place of satetie? The gossip approved and commended his resolution, and going speedily to the place, care ried back againe the five hundred Crowns, that he had taken away before, hoping that he should have all the whole thousand together. A while after the blind man goes to his hole; and finding there his Crowns againe, took them up, and comming home, calleth for his gossip, saying unto him with a cheerfull voice; Gossip, the blind man hath feen better than he that hath to eyes.

338 Of Nations of divers forms. Classis X.

Article 9. Of Nations of divers forms.

Hat I faid in the 8th Article of Monstrous Births, happens but seldom: ver some thought thanks and the seldom. V seldom; yet some thought, that happened commonly amongst fome Nations. Not far from the Troglodites in Athiopis, there is a people that have no heads, and their eyes are in their breafts. Augustine saw them, Serm. ad Fratr. in Eremo. Solinus confirms it, c. 52. Pliny 1.5. c.8. In Peru in the Province of Caraqui, Hispalensis sayes, they want the forepart, and hinder part of the head, Sylvius p. 5. 10.35. For he adds, That fo foon as they are born, they make their heads level with boards. Rawleigh in his Navigations to Guiana, speaks of some that are call'd Epumerocaci. The Circades, a people beyond Taprobana, are long vilaged, with horse heads, if we credit Arrianus, Ramus tom. 1. In the Mountains of the Indies they have Dogs heads, and claws, and hides like beasts; they cannot speak, but bark, saith Megastenes; Ælian 1, 10. c. 26. faith, they are in Egypt, in the way to Ethiopia, and he describes them, that they are black visaged, having no voyce, they make a thrill noise, and their chin is so far beneath their beards, that it is like to a Serpent. They live by hunting Oxen and Does. Augustin de civitate Dei, l. 16. c. 6. thinks, that is not incredible. Amongst the Scythians there are some with such large cars, that they will cover all their bodies, Isidor. 1.11. c.3. Some have their feet fo broad, that they can shadow their whole bodies with them, when they lie down, from the heat. I may here adde, that there are Sea-Men. Anno 1403, a Sca-Woman was taken in the Lake of Holland, and brought to Harlem, the was ready to learn some things that women do, but she could not speak. Anno 1526, in Frisland a Sea-Man was taken with a beard and hairy, he lived some years, but could never speak, Libav. 1.6. de universitat, rerum. And not long since, when the Denmark Ambassadors sail'd into Normay, they saw a man in the Sca, that had a fwathband of corn, they took him and put him into the Ship, and he dyed, they cast him into the Sea again, and he revived. Historians approved do write these things. We will not here add what we think, onely the Devill hath many wiles; and great is the force of Imagination; and sometimes beasts are taken for meu, if they be but like them. We read in the Scotch History, that the Kings Embassadours were brought by a storm into Norway, and saw hairy beasts in the Mountains wandring like to men, they thought they had been men, the Inhabitants told them they were wild beafts. Let every man think what he please. I may have occasion to speak more of this clfewhere.

Chap. 5. Wonders concerning Generation. 339

Article 10. Of a wonderfull Antipathy betweeen the Father and the Sonne.

Here was a Pather that hated his child as much as some men do L Cats; for if he were prefent, though he faw him not, he would Swoond, Georgius Mylius, a Divine of Jena, related it. Libavius sought the cause diligently. And if the reason of antipathy in naturall things be worth enquiry, that is most worthy to be searched out, that is between children and parents. This is certain, that the cause of this discord cannot be found, nor in the rational nor the sensual part. For he wished his son no harm, nor can sympathy or antipathy be called love or hatred in parents. For they are to be found in things that are not living; and if they be in living creatures, they are not in them as they are living, but as they are natural, things. Yet because he did not abhor his other fon, nor hatch is off-spring, for which cause he married, it is certain that was no hereditary infirmity. It is probable, the fon was changed into a disposition the father could not: away with; and that might proceed from the feminary body ill disposed from the womb, or by the confluence of impure blood, that had in it some ground for this alteration, or from the blood the Embryo was nourished with. For this growes divers from the matter of the nourithment, or may degenerate from some other inward cause, or from the place: sometimes the spirits that assist the blood and the whole nature, cause a change. Therefore either the mother had a great longing for some meat the father hated; or else she was frighted at something the father could not endure: To say nothing of the Midwife, or of hidden causes. So a Maid at Uratislavian, drank Cats blood, and became of a Cats qualities; and Faustina taking the Fencers blood, had a fon that was most cruell. If any think that a habit cannot be got by one act, he must know that is false of naturall powers; for they that of old were once taken into Trophonius his den, were wayward ever after; and a woman that fell into a Wolfs hole. grew hoary the same night.

Artic. 11. Of some wonders concerning Generation.

Adde these, though I have said much, that nothing might seem to the wanting. Soranus Ephesium Isag. 17. writes, that women that are delivered in thips, have still children; not that they cannot speak, but they will not cry when they are born. Ausonius speaks of one thus:

Thy Father Genoces, thy Mother Græcian blood, Born in a Ship at Sea, can that Son ero be good? Ligurians vain, Greeks liars, falfe Sea, thefe three Thou dost refemble well, they all do meet in thee. 340

Some are born with marks upon them: Johannes Fredericus, Elector of Saxony had a golden croffe on his back, a fign of his future calamity, Buchol. in Chronol. James, King of Great Britany, had a Lion, a Sword, and a Crown when he was born, Camer. hor. Subcis. Cent. 3. c.42. The Kings of the Corzani have the fign of a black Eagle on their shoulders, Marcus Venetus. It is a report, that the Princes of Aufria, (others do not write so) are born with a golden crosse, that is, that they have white hairs drawn out in the form of a crosse, Fælix Paber histor, Suev. 1.1. c. 15. Some men procreate after 80 years. For Masanisa begot 6. Children after that age; and a Noble-man of Francony had a fon and a daughter, after that time, Camerar. Women have born children after 50 years. And some have born children being children themselves. Albertus Magn. 1.4. sentent. writes, that one was with child at 9 years old, and was delivered at ten. And Pliny 1. 7. c. 2. faith, that some have born children at 7. years old, and that but once, and they lived not above 40 years, and they were held to be very old. Rhodig. Antiqu. l. 14. c. 18. faith, that a boy of ten years old got a child. Some have been delivered in the fecond, third, or fourth month after their first child, of another living child. Nancelius 1.8. Analog. writes of one that was brought to bed twice in two months. Others could not be delivered but by a Chirurgions opening their wombs. Schenkius reports, that one woman was cut open four times for four severall children. Pliny writes, that Proculus Cafar got 100 Maids with child in 15 dayes, Pliny 1. 7. c.32. In Picenum a child was born with 6 teeth, Bonfin. Decad. 3.1.8. In Prussia the son of the King of Bythinia, had but one solid bone in place of teeth, Solin. c. 3. Some are born, that can sometimes move their cars. Zoroaster was born laughing. So much for this; we shall proceed to other matters.

CHAP. VI.

Of Vitall astion.

Article 1. Of the Heart.

Tome have wanted a Heart, if we credit Avicenna, and if his writings be not corrupted, Rhodig. 1.4. c. 16. When Cafar was Dictator, the fame day he went in his purple garment, the Priest found it twice wanting in the bowels, Plin. 1.11. c. 37. Some have been found with two hearts, as the Partridges in Paphlagonia; some have wanted the left ventricle; and the midriff in some hath been like a gristle, Columb. 1.15. Anatom. And Gemma sound a bone in it in two mens bodies, 1. 2. Cyclog. And wier. 1. 4. de prassig. Damon. c. 16. sound stones as big as pease. Aristomanes Messenius, who killed 300 Lacedemonians, and was sometimes taken, and sometimes escaped, had a hairy heart, Valer. Man. 1. 1. c. 8. The same thing Beniventus reports of a certain

certain thief, c.33. de abditis. The periodium or purse wherein the heart lies, may be wanting. Columbus 1, 75. Anatom. observed a young man that wanted it, and he was troubled with swoonding fits. A wound may be in the heart that is not mortall; for the Son of Maryllus the writer of observe matters, had the perioardium cut, that one might see his heart, yet he did not die, Galen. 1, 7. administr. Anatomia A history of Groning tells the same almost that happened upon a wound in the Heart; because but sew know it, I shall set it down.

A wonderfull Accident of a wound in the Heart.

Nicol. Malerius wisheth happinesse to the Reader.

T hath been thought hitherto that a man could not live a moment almast; if his Heart were wounded. Reason and Experience prove it. For fince our life depends upon the safety of the spirits, the shop and making whereof is in the Heart; when the heart is wounded, it is necessary that the generation of the fpirits cease. Yet I thought good to set down here a very notable History; ahistory of a Souldier that lived 15 dayes after he was wounded in the heart; none of the old or new Physitians mention any such thing. Andreas Hafevanger, who was of the Lifeguard of the most illustrious Count William of Naslaw, Governour of Frisia, Groning, and Omland, Go. received a wound in his breft by his fellow-Souldier, Anno 1607, on the 22 of August about the Evening, he died September the 8th, at one of the clock after Sun-rifing, which was the 16 day after he received the wound. The body of the dead Souldier, by command of the Generall of the Army was opened to fearch for the wound, by me and two Chirurgions, Caspar and Lucas Hultenus; a noble valiant man, Bernard Hoornkens looking on, and some other Souldiers that were of note. When we had opened the cavity of his breast, and a great deal of very stinking matter was run forth; we found, and wondred, that the wound had entred the right cavity of his heart, and all that part of his heart was almost all consumed; the left part being entires wherein is contain'd the chief shop of the vitall spirits; By the benefit of this, Andreas lived to the fixteenth day: and left fome (hould not believe this, the most noble and worthy men signed it with their names subscribed; to confirm it, &c.

FITHe Pulse is the motion of the heart and arteries, confishing of a I systole and diastole. Platerus thinks it is felt on the left side, by reason of the great Artery. Yet Cardan saith, some have perceived it onely on the right fide. There is great inequality in it, from divers accidents that happen, whence comes the diversity of pulses amongst Physitians. No man can deny, but that sometimes it may be intercepted; and not felt when the Arteries lye deep, Balduinus Ronfeus. The Player of Andreas Count of Gorca, had naturally all kind of inequalities of pulse. But Johannes Brosovius of the Order of the Crosse of the bleffed Virgin had it with intermission all the time he lived. Physitians try the motion of the heart in living creatures. Coiterus observed it in a Cat. Then cutting the Pericardium, he observed a double and contrary motion in the heart, namely unto the cars of it. For whilest the heart bear, the ears sank down; when the heart fank, the cars were lifted up and fill'd; which in the cars were compased for a diastole: they seemed to be inflated like a bladder; and when they were extended, they were red, and continued fo a while, before they came to a systole. The same reason was observed in the space of the diastole. Yet in the systole they grew white, and became loofe, and fank down, and by the force of the heart, they were drawn a little toward the basis of the heart, &c. In olf. Anatom.

Artic. 3. Of Life and Death.

Have little to fay of Life, but that men were long lived before the HI lood: after that time none lived to Adam or Methusalems Age. Yet fome have lived very long, Lemnius 1.4. c.24. Occult. writes, that he faw a Pilote at Stockholm a 100 years old, who married a Wife of 30, years, and had fome Children by her. Laurentius Hethlandius in Buchanan was 140 years old, and yet in the coldest Winter went a fishing. An Indian of the Nation of the Gandarida, they call it now a days, Bengala, lived 335 years, his Son was 90 years old, and though he knew no letters, yet he could by memory report as true as the Chronicles. His teeth shed and grew again, and his hoary beard grew black again. Petrus Masseius. That is also rare, that Thuan. 1. 134 writes. That Emanuel Demetrius, bred obscurely, lived 103, yeares, his Wife was 99, and was married to him 75 years, the one Supervived the other but three hours, and Anno 1603 they were both buried at Delph. The years of Mans age that rife by 7 and 9, are decretory or climactericall, hence Children are endangered about 4, 7, 9, years, &c. Celf. 1. 2. c. 1. The 63 year is most dangerous for old men. Whence that proceeds it is hard to conjecture. Lemnius 1.2. c. 32. He thinks that at certain periods of yeares, a great abundance of humours are heaped up, by the agitation whereof diseases arife. For when nature comes to immoderate repletion, and the recep-

Of Life and Death. Chap.6.

receptacles cannot receive the plenty of namours, it must come to a discase. Philo in loc. allegor. I. i. writes thus of the 7th year. Nature delights in the 7th number; there are 7 Planets, the Bear hath 7 Stars; the Moon bath some change every week, and those changes in the agre proceed from thence. All humane things, that have a divine principle, are moued healthfully in the 7th number; Children born in the 7th month are safe; in the 7th yeare a man is perfetly a reasonable creature 3 at 14 he is able to get his like, at 21 he leave growing: the part of the brutish foul is divided into 7, into the live fenfes, the instrument of voyce, and the generative force. The motion of the body is 7 fold, fix according to the parts, the 7th round about. There are 7 inward Bowels, the Stomach, Heart, Milt, Liver, Lungs; the two Kidneys. There are 7 Members of the Body, the Head, Neck, Breft, Hands, Belly, the Groins, the Feet. The principall part of man hath fevenholes, two Eyes, two Ears, Nosrills and Mouth. There are 7 excrements, Tears, Snot, Seed, and what comes forth by the two finks of the body; and Sweat in every part, &c. What ever it be, live long or little, death is certain to all. Nature at the same moment gave a law of being born, and to dye, Valer. Max, l. 5.c. 10. Mourning weeds are put upon conquerours dores, Senec. ad Polyb. But the way is unknown, and divers. Baldus was bit by a Cat at Meletum, but lightly, on the lip; he grew mad four months after, fell into Hydrophobia, and died. Magol.in Collogo. Ladiflaus King of Naples, when he dwelt at Perufium, died of the Pox. Colenut. in compend. histor. Neapolitan, Some have dick with too much joy, some with grief. When the Janisary was sent to kill the youngest Son of Bajazet by Solymans command, and he faw the Child laugh at the halter, and to kiffe him, and to sport; this cruel man was so moved, that he fell down dead. Thuan 1. 24. After death, almost all Carkases corrupt, and are changed into other bodies. Pliny faith, l. 10. c. 66, that Serpents breed of the Marrow, and so they did of the body of Cleomenes who was hanged, Plutarch. The same was done in a young Man Camer. cent. 1 horar. subcif. c. 11; For when he was thought to be the fairest of his time, and fell dead. ly fick, he could not be perfwaded to leave his picture to posterity,; only he granted thus much to their request, that many days after he was dead and buried, they flould open the Monument, and as they then found his body; fo should they picture him. When they opened it, his face was found halfe caten up with Worms, and they faw many Scrpents about his Diaphragma, and Marrow of his back, The Sepulcher of Carolus Martellus, was found without his body, and a Serpent in the place, Guaguin et Emil. In Ægypt whole Carkafes are found, our of which Catumie is taken, that is a cure for many diseases. Nor do those bodies corrupt that areseen neere Kijovia by Borystenes.

Ecause Venoms are most pernicious by a hidden quality, Ishall add a few things concerning the variety of Insections. First I shall speak of the Ayre infected. That is seen in the Plague, and might be proved by all in that Cave necre to Naples. And the marter is come fo far, that the Ayre may be infected by art, that the enemy coming into it may be killed. That was clear in the Sepulcher of Semiramis, that was placed above the famous gates of the City. For when Darius, hoping to find treasure, opened this, he found a little Coffer, which being opened, such a Venemous blast flew out. that it killed a third part of the men. Some living Creatures kill by fight, and hissing. That was thought true of the Basilisk, that was feen in the treasure of Maximilian the Emperour. And Avicenna writes 1. 4. sen. trast. 3. c. 22. that a Souldier wounded a Serpent with his Lance, and by his Lance he and his Horse were poyloned, and died Bartholin, Phyl special, part. 3. c. alt. faith, that in Cimbria a Shepheard that leand his arme on a Barn dore, had his sense and motion taken suddenly away on that side he leand, and his beard grew grey on that fide, and there was a broad of Serpents, found under the dore. Jambolus saith, in Arabia there is an hearb, and if any man sleep upon it, they die in a sweet sleep. Diodor. Sicul. 1.2. I add tasting to fight. So in India when those of Europe tasted the beautifull Plants. they died suddenly. Alexanders Army was almost ruin'd by a new kind of Apple. A Country man in the Valley of Ana, was bit ungwares by the head of a Screent cut off, he put his mouth to the wound and sucked it, to help it; but he grew suddenly speechlesse and died, Mathiol. What shall we say for touching? The Tarks have Poysons that will kill in one day by touching. Cardan, I. x, de venen, c, 15. Otho the 3. Emperour of Rome was killed by a pair of venom'd gloves fent him from the Wife of Crescentius a Roman Consul, who was frustrated of his marriage. Johan Galeacius was killed by Venome put into his stirrop when he rid. Dryinus, if any man tread upon it, it will excoriathis feet, and the hand of the Chirurgion that dreffeth the fore will be excoriated by it. Laftly many dye by venom'd fmells. For Alexander Magnus his horse-forces in India, died all almost of the smell of a Pestilent shrub; and Franciscus Ordelaphus, a Captain of Forolivium, had a kind of Poylon, that, cast upon coles, would kill all came neere it. Think not that to be done by the naked quality; fome Venemous thing was joyn'd with the smell; for certain it is, that there are many effluxions of things.

CHAP.

CHAP. VII.

Of the internall and externall Senfe.

Article 1. Of Imaginations of melancholy people,

Hole that are fick of melancholy have fuch strange phantaims presented to them that sometimes the wisest men are deceived by them. One man thought he was all Soul; another that he was a Millet feed. One, that he had fo great a nofe, that no gates were great chough to let him in, Lemnius l. 2. de complex. c. 61 Some thought they had no head; some thought their buttocks were made of glasse, Lemnius. One of Sena of noble birth, thought that if he should make water, he should drown the World, Laurent, I. de melanchol.c. 71 A woman, faith Trallianus, tied the middle finger of her hand, as if the carried the whole world upon it, the cryed, faying, the feared that thould the bend it, the whole World would fall down; A learned man in Quercetan. Dietet. Polyhift. li 1, crult, thought, that two evill foirits were put into him by his friend that brought them out of Italy, and that they oft-times talked with him. A Burgundian at Paris in the Temple of St. Julian, faid, he was dead, and defired the Physicians to trouble his soul no longer; that was flying out of Purgatory into Heaven. Then he imitated men dying, Scholiogr. ad, c. 17. 1.1. Holler, de morb, intern. A certain man in Montan, confil, 75. thought the world was made of fine glaffe, and that Serpents lay under it, and that he was in his bed as in an Island; and should he come forth, he should break the glasse and fall down amongst the Serpents. I say nothing of a Maid, who supposed the was in Heaven, and that the walked with the facred Trinity, and Angels, and the Devill perfwaded her to think fo. Sometimes such people use to speak strange tongues, and foretell future events. So Erafmusin Encom. Medicina, writes, that one of Spoletum, when he was fick, spake a frange Language; when he recovered, he forgat it. Guainerius trast. 15. c. 4. reports, that he saw a Country man that was sick of melancholy, who alwayes when the Moon was combust, would write Latine verfes; and after a new Moon, about two dayes, till the next new Moon, he could not speak one word in Latine. Forestus writes of a melancholy woman that would fing Latine fongs that she had never learned. And Johan. Huartus in scrutin. Ingenior. makes mention of a Spanish fervant, who imagined himself to be a King, and made learned specches concerning Government when he was fick. But we must needs confesse, that the Devill is the Author of these things, by a just ludgment of God. Nor can this be ascribed to the Stars, as Guainerina thinks; nor to the agreement of the Latine tongue with the rationall Soul, as Huartus would have it; nor to the pure overshadowing of the spirits, or to a malignant quality, as others suppose. Whether

Article 2. Of the force of Imagination.

FT He force of Imagination may be known by the former Article: but because melancholique Imaginations are with sicknesse, they do not so well expresse it, as fear and conception do. For when a noble Youth who had ravished a Maid, was to dye for it, he confidered fo deeply of it, that his vital heat and spirits were so extinguished. that all his beauty became despicable, and the roots of his hair grew dry, for want of moviture, and turn'd grey, Camer, memorab, medic. Cent! 2. Mem. 15. The same happened to Franciscus Gonzaga, when he was imprisoned for a Traytor, Scalig, Exer. 312. And to Lodowick Bavarus the Emperour, when he had flain Helica a Virgin of Premeberg, cut off his Wifes head, and had cast another Noble woman headlong from a Tower, he fell fick of it by a vision in the night, Avent, 1. 7. Innumerable Examples prove, that in conception the fame may happen. The Wife of Duke Plumbinus having layn with a Black-moor, was delivered of a Blackmore. Persina an Æthiopian, seeing the Image of a white child when the lay with a man, had a child with a white face, Heliodor. When Charles the fourth was Emperour, the Wife of John Baptista, looking often on a picture, bare a hairy child. A man disguised lying with the Wife of Bolduck, as if he had been the Devill, got her with child, and the boy ran about fo foon as he was born. You shall find the like Monster in Lemnius in occult. And he extends Imagination fo far, that he thinks, that in more venereous Virgins, their feed being mingled with their blood by imagination of venergous things, may cause the rudiments of a living creature. How that may be, it is hard to explain, nor doth it belong to this place.

Artic. 3. Of Sight and Smelling.

ugustus casar had such clear eyes, that whom he looked on inngulus Cafar had such clear eyes, that whom he looked on in-tentively, he would make them to wink, as at the Sun beams. Suctionius faith, that Tiberius could see in the dark like a Car. It is certain, that Strato had fuch acute eyes, that from Lilybeum he could difeern Ships going forth of the Carthagenian Haven, Val. 1, 1, 0,8, and he could number all the Ships. The distance was 135 miles. If this be true, that is true also, That a Spaniard, one Lopes, was in Gades, who from a high Mountain call'd Calpen, would fee over the Sea against it, and discern out of Europe, the banks of Africa, (the passage, as Cleonardus in Epistol. ad Jacob. Labocum saith, is in a calm Sea, 3 or 4 hours over,) yet he could fee what was done there, Camer. hor. subcif. 1.3. c. 81. In the West of Africa there are Blackmores with four eyes, Lycosten. Also Isigonus and Nymphodorus report, that Some Families in Africa have eyes that bewitch people: If they praile

Chap. 7. Mon Of the Pace.

praife any things, they perift by it, trees will wither, Children will die pand Theoms faith, there are fuch people in Illirium, and the Tribally that will bewitch anything with looking on it, and kill those they look upon long, especially with angry eyes, and young men especially are bewitched by them. That is most notable that they have two Apples in each eye. In Albania there are some that have Owls eyes, and ard hoary from their childhood, who fee better by night than day, Pliny 1.7: 612011 Anastasius the Emperour had Apples of his eyes of divers colours, the right oye was blacker, the left more grey, Zonar, They that dwell near Lakes cannot endure smells, Strabo 1.16. reports that fuch amongst the Sabeans as are stupified by sweet smells, are refresh ed by die fume of bitumen, and by the beard of a Goat burnt. That flinking finells are good fometimes, women that are cured by them of their hysterical passions, and the plague, thereby removed, do confirmio At Antwerp a Country man coming into a Persumers shop fwounded, but camero himfelf by rubbing his nofe with horse dung, Liemn. 1. 2. occult. c.9. 1 and 1 and 2 an

the country action Article 4 to Of the Face. The state of the state of the face. Od hath fet Majesty in some mens Faces, chiefly if you regard Princes: some are of a wonderful form for comelinesse, others for ill-tayourednesse. They of Bruges were afraid of the Countenance of Cafar Maximilian, being captive, Delf A.3. in Maximil. vita et Philippi. The Conquerours that beheld the Countenance of Francis the first King of France, who was worthy of everlasting renown, when he was taken at Ticinum, they all strove to do him service, seeing his Kingly Counter nance Forcatul de Gullor. Imper. 1.3. When the Conspirators thought to have flain Alphonfus Estensis the First, Duke of Ferrara, he frighted them with his looks that they durst not do it. The twins Manechmie in Plautus were so like, that neither their Nurse nor Mother could know them afunder. Vives observes the same of two sons, John and Peter, of a Senatour of Mechlin. Antonius Bithynicas was fo fair, that Adrian the Emperour built a Temple to him, in Mantinea, and a City by Nilus, and engraved his Image on the Coin. The fon of Maximinus was so beautifull, that his head that was grown black after he was dead, and foked with corrupt matter, yet feemed very fair. Democles an Athenian boy was call'd so for his comelinesse; and he had fo much care of his chastity, that to decline the force of Demetrius, he cast himself into a Kettle of scalding water, Plutar, in Demetrio. Spurina a young Maid, by her very looks entited men and women to luft, Val len. Max. Lastly, Queen Suavilda was so, delicate of form, that when the was bound with thongs, and exposed to be trod on by horses, she was a terrour to the very beafts, that they durft not tread on her fair limbs, Saxo Gram. 1.3. biftor. Danic.

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348

Artic. 5. Of Dreams.

S in other things, fo Nature sports her self in dreams: for sud people are merry when they dream fomtimes, merry people are fad; Servants are Kings, and Lords become Servants. And though we must confesse that many of them, and what is then done be natural, yet scarse any can deny, but many of them are supernatural. God in elder times did teach his Church by dreams, and now adayes many dreams come to paste. When Lucas Iselius the Son in Law of Zwingerm was at Vefontio, he forefaw in his dream the death of Huber, a Physician of Basil. For he seemed to see his bed covered with fresh earth cast upon it, which when removing the blanker, he thought to cast off, he law Huber the Physitian under the bed; and in the twinkling of an eye he was changed into the forme of a Child. Nessenus the same day he was drownd in the Albis, dreamt of some hurr came to the boat, and his own falling out of it. Christopher Rhaumbavius a Physitian of ttratislavium, followed the counsel he had given him in a dream, concerning the cure of a discase, was to him incurable; and he recovered his patient. The wonder was, that a few yeares after he met with that receipt in a Book newly printed. Doring de medic. l. x. part. 2. f. x. d. x. c. 3. Histories report that the fame hapned to Philip, and to Galen before him. To this may be added the dream of the Mother of Scanderjeg, concerning a Serpent, that covered all Epirus, and firetched forth his head into the Turks borders, devouring them with bloody jaws, but the tayle was convain'd amongst the Christians, and the government of the Venctians. Barlet. 1. 1. de gest. Scanderbeyi, c. 32! That of Scaligers, of a great flame with a mighty noise passing over the Alps, at Noricum, Rhatia, and Ligaria without any hurt. Scalig. in com. l. de infomn. Hippocrat. Apotel, 42. Of Hunnius his, of a Pillar in the Church; These did foreshew the future condition of their Sons, and that certainly. For Seanderbeg was a hammer to the Turks, Sealiger the bright Srar of those quarters. And Hunnius a Pillar of the Church he lived in. What shall I say of Gunthram King of the Francks ? It is wonderfull what he dreamt: For when on a time he went through a wood a hunting, by chance lofing his company, and having but one man left with him, who was more faithfull to him than the rest, he came to a brook of cold water. And when he was heavy with fleep he laid his head in that Mans bosome and fell a fleep. This fervant thereolferved a strange thing; For he fan as it were a little Creature creep out of his mouth whilf he Hept, and go strait to the River; and when he strove in vain to passe over , the Servant laid his drawn fword over the brook, whereby, when the little least had easily passed over, he crept into a hole in a Mountain hard by, and coming back an hour after he paffed the same way, and crept again into the Kings mouth. The King wak dand told his Servant, that in a dream he seemed to be brought to the bank of a great River, and to have paffed over an iron bridge, and fo to come to a Mountain where there was great flore of gold hid, when the King had related Chap.7. Of Walkers in the Night.

this to his Servant, and heard again from him what stronge thing hapned when he flept, they both went to that Mountain and there they found a might make of Gold conceald. Heidfeld, in Sphinger. 14. Marinus Mensennus in Genefin, calls this a diabolical dream. That is more wonderfull, that he dreams at Schmalcaldiam. He that will have the relationiles mim read Pencerus de Divinatione. And, in place of that, I will for down the dream of David Pareus, which is thus described by him. I fam. A. great One that mas weary, which extended his bead to the East and beholds Ramcame from the East with three horns , and he ran upon this One stand burt his binder legs, and the Oxe faltned himfelf , and food Brongen. And If an that the weary Oxe fet his feet firmer. And there tame another Ram from the Mountain of the Gentils , and those ways , and breaking ove leg between his horns , he ran upon his fare parts 5 yes, the Ore Good fall excip. and fell, not, but the Rams grieved exceedingly's, and those that adored the Rams wept; because God preserved him, and sent him food from India that Grengthned him. And behold on the otherfide of the River flood an Armenian Tyger, with the Moon upon his Head, and he faid, I will prey on both the conquerer, and the conquered; and the Ram with three horns was devoured by the Vyger, and conquered him. Theother Ramfled to his Asonnain? and the grafe withered, but the Oxes horns grew, and the Tyger fled from him ; and the Ram did not escape intothe Mountain, and I was glad that God Artic. G. Of walkers in the Night.

Here are many examples of Night-walkers A certain young I man rifing out of his bed, putting on his Clothes, and his Boots and Spurs, got aftride above the window, upon a Wall; and spurd the Wall as if it had been a horse. Another went dawn into a Well and came not up again till he had touched the water. or Horfins tells " of a Noble Man that went to the top of a Tower, and tobbid a birds

nest, and came down again by a rope. It is reported, that one at Paris, girt with his fword, fwam, over the Sam, and killed one he was minded to kill before; when he had done this villany, he return'd home, Aleman, comm. ad libr. Hippocrat, da Aere, &c. As for the cause, many men are of divers minds. The best opinion ascribes it to Imagination: for the sensitive soul in sleep, not onely rouzed by an external object, converts her felling be fenfible, and first perceives darkly, afterwards more clearly, but being affected by the inward object represented in a dream, rouzeth the moving faculty. The Imagination is rouzed by the species of things reserved; about which whilest it acks intentivoly, it stirs up the maving faculty. "That this is fo, appears by daily experience. Forwho knowes not but we are troubled in our fleep to That we rife now is because our phantasic is not altogether so busic about the Images referved, as in some other men. Yet the stronger motion doth not alwaiss proceed from the fame cause. For some think the same thing may be है। हो है के कि है के हैं कि है कि

canted from diurnal cogitation, especially in younger people, that are more bold, and more luftfull. Others suffer this from an internal affection of their body, yer they are not all of the same kind. Some have more cheerful, and more phantastick animal spirits; some seem to do this out of simplicity. That they wake not, is caused by the stiffnesse of the vapours. For these not suffering them to be easily awaked 3 and on the other fide, the animal spirits being lively, it falls out that they are half awake, half afleep; yet it is not likely, that all are of the same kind. For that boy Libavin speaks of, that went nati ked to the door, and came home again, observed a Watchman fitting in the fireers. Laftly, the cause they do those things in their sleep, they cannot do waking, is their ignorance of the danger; the action of reason is darkned, and they cannot hinder the motions raised by Phantasie, Libav. in Nostambulis.

Article 7. Of some things observable concerning the Head

and the Senses, which is a sense of the sens

Pyr Here was one born and grew to be a man, Anno 1516, that put forth another head at the navel, Lycosthen. Anno 1487, there was a boy at Venide that had his mouth cut divers wayes, and a genital member growing to his crown. Some of years have had horns grow on their heads. A Virgin had them about the joynts of her Feet and Arms, like to Calves horns, the was cured afterward, Schenk. 1. 1. obferv. The Egyptians had fuch hard heads, that you could hardly break them with throwing a stone at them. The Persians heads were fo weak, that a little stone would break them, Herodot. The Indians heads in Hispaniola are so hard, that they will break swords. Cardan. 1. 12. de variet. ver. Beniventus faith, de abdit. c. 10. that a Monk had his forehead bone eaten naked by a sharp humour. Tyrrhemis Torcon and Cyonus Trojanus, were grey when they were young, Cal. 1. 3. c. 27. Antiq. And Ctesias writes, that in a part of the Indies, the women never breed but once, and presently grow grey after the first child. The Miconii are born without hair, Plin.1.14.c.37. It is rare for a wor man to grow bald; no Eunuchs ever do, nor any man before he hath known a woman, Pliny. There was a woman seen at Paris with a black upper beard that began to be hoary, of a great magnitude, her chin also was moderately hairy. Also they report, that in the company of women, that Albertus the Duke of Bavaria kept, one of them had a long beard, wolfing. There was a child born in Lombardy in the time of Pope Gregory, that had cars big enough to cover the whole body, Thomaiss in horto mundi c. 19. Many men could move their cars; and the skin of their heads at pleasure, Dalechamp. Men say, that in the inward parts of the East, there are people without any nose, and their face is flat; others that want their upper lip; others without conques, Plingl. 6,6130 with They write also, that there is a part of Athiopia, where the Inhabitants are born with a flexible body, that they Benton bound driver were known before the first of the contract of the engineering Chap.8. Of the moving Faculty.

can wind themselves easily every way they please, and they have two tongues, and can use them both, and speak plainly with them as pleasure, Gem. Frif. l. 1. c.7. Cosmocrit, Musianua laith, he la Villagues n samothracian Citizen, who had his teeth grey, again All and years, plin 1, 1, 6, 17. Arifotle 1, 2, c, 4, de bifor, animal, makes mention of a woman that had her cheek teeth come forth with pain, ipher 80 year. Pliny writes, that some had teeth bred in their na. lates, Bling 1.11. c.37. Mecenas never flept in three whole wears at last he was enred by gentle Musick, Senera de provident. Nerolius call'd cueronianus, never slept inten years, Heurn, car badomore gap Cardan, when he pleased, could be so taken up in his thoughts, that howould feel no pain in that flate. And Augusting 1. 14, da City, Reis c, 24 reports the same of a Presbyter restored : He lay as though he were dead, and did not feel those that pulled him; nor would he flire, though they burn'd him with fire: yet he confessed, that he could then hear men speak, if they spake aloud, as though they were far off from him. And it was confirmed by this Argument, that he did not do it by refifting, but by not feeling, that he moved not his body; for he lay as dead, and drew no breath. The English History relates, that Elizabeth Burton a Maid of Canterbury had contracted the same custom of taking away her senses, from a disease she had. And the control of th

CHAP. VIII.

Of the faculty of moving from place to place;

Artic. 1. Of the wonderfull strength and agility of some people.

I Shall speak Wonders; and that there were such Examples, Pols I damas may prove : who being unarmed flew a Lion. The fame man for upon a herd of Oxen, he caught hold of the hinder foot of one of the greatest Oxen, and would not let it go, though the Ox raged, till he left his hoof in his hand. He held Chariots with four horfes back; with his hand, when they went with all their force, Rhodig: 1.7.0.37. When Mila Crotoniensis held an Apple, no man could wrest it from him. He at the Olympian Games, carried an Ox a furlong, and held his breath all the while; then killed him with a box of his fift, and cafily cat him up all the same day. At last, when he thought to pull asunder a cleft Oke, it fell upon him and kill'd him, Pliny 1.7. c. 201 Maximinus the Emperour had fuch strong limbs, that he put on his Wifes bracelets, that was a circle fet with Jewels, that went about her Arms, for a ring on his thumb. A Cobler in Sweden carried alwayes 120 pounds of gold hang'd about his neck; and he fought with 9 Fencers, and killed them all, Olaus 1,5. c. 2. One Paulus in Bonfinius rer, Ungar, decad. 4.1.2. was in flature and for limbs like Hereulas: He took an armed man in his teeth at a military dance; and though he was in armour himself, yet he carried him with him, and

Chap. 9

danced, uberins de cruce, of Milldin, carried à beaft laden with Wheat, and standing bur upon one foot, no man could thrust him off from the

place he flood, Leander in Mediol.

Laftly in the Mountain Anchafa, not farr from Ailas, every fingle foot-man can resist two horse-men in fight. Leo African. Phileras. Colls was fo light; that he tied leaden bullets to his feet, that the wind flould not carry him away. There are as wonderfull examples of agility of body. In a Western Province of the New World, the Indians are so swift; that they will run a whole day to overtake a Man: Hifpal, filo. p. 5. c. 7. The Scritofinni will out run Wild Beafts Rrant, In Suecia. The fame Author writes that Herald a Noble Irish man would out run any horse. I. 5. Norveg. c. 6. In Mexica, Posts in four days will run 70 leagues. Polymneftor Milefius, when he was a boy catcht a hate in sport. Philonides in one day ran 1200 futlongs on foot, that is 75 French leagues. Ladas, foran over the white fand, that he left no prints of his feet. In It alythere was a Boy born when Fonteius and Vipfanius were Confuls, who at eight yeares old ran 45, miles from Noon to Night. Solin. But wonderfull is the agility of a Country man bredamongst Cattle, who came to the Court of the Prince of Papeberg. Camer. cent. 1. hor. Subcif. c. 75. The Prince had in his Court a Dwarf call'd Martinettus, that got on the back of that nimble man, as upon a horse, and he turnd round with him, and ran here and there as he listed, but when he pleased, he would at one leap cast his rider, though he fat never so fast. Then he with the Dwarfe on his back would fight with the Hownds, and great Mastives the English call them Dogs: some of them were very fierce, and yet with his barking like a dogg, and grinning, and with his hair about his cars, he did fright them, and drive them out of the Chamber, and fomtimes he would bite the lesser dogs, when he had driven forth all the doggs he leapt wonderfully up and down, with four feer, and jumped to the highest corners of the room, that an ape could hardly do as much, and yet he with his Country square body did it with case. I saw him, once and twice, when I dined with the Prince, when he had cast off the Dwarfe from his back, and barked away the doggs, he leaped over the shoulders of one that far at table, then over the Table, not touching the cups nor platters that stood upon it, and then into higher places, and that so nimbly, that he feemed to flye like a Squirrel, or Indian Cat whereof Julius scaliger writes. He adds, many were of opinion, thathe cast a mist before mens eyes, but he knew nothing of that, nor do I think he could do that if he would. Justinus 1, 44, writes that Habides Son to Gargor, King of the Curetes was of the like agility.

CHAP.

The CHAP. IX the constraint manifest

Of the rational Souls and first, of Memory & Costs which

He rational Soul is the Form of Man, and gives man his Being diffinguishing him from other creatures. The faculties of it and two. Understanding and Will, the speaking faculty is given to thom. both, to interpret. There is scarce any thing to be faid of them. Jion though there are infinite almost considerations of them saf you confidet the diversity of inventions, virtues, consultations, tongues, manners of writings, and the reft, yet, should we adde them here, it would be a great fault in method, for they are more firly handled in the Ethicks, and therefore I forbeare them here sale and inage one walk

I shall onely adde one thing of Memory . That some have had an excellent Memory; Efdras the Priest had all the Jews doctrine by heart. Cyrus and Scipio knew every Souldiers name in their Armiesi Carmides would fay any books that any one asked for in their Libraries, as if he read in them, Plin. Mithridates had learned the Languages of 22 Nations, Gellius. Jalius Cafar would dictate to four at the fame time; Pliny faith, he was wont to dictate, to read, and to hear. Themistocles had such a Memory, that when Simonides offered to teach him the Art of Memory, he faid, He had rather learn the Art to forget; faying, He remembred what he would not, but could not forget what he would, Cic.1.2. de finib. Seneca repeated in order 2000 names as they were first spoken. He rehearsed 200 verses, and began at the last. Portius Latro never read over again what he was to deliver: For he learned it as he writ it, and he repeated it, and never missed one word. As these had excellent Memories, so others had as bad, either from some disease, or ill constitution by birth. Messala Corvinus forgat his own name. Franciscus Barbarus, a most learned Man at Athens in the Greek Tongue, having a blow on his head with a stone, remembred firmly all things else, onely he lorgate Learning, that he had spent so much time upon, Valer. Max. l. 1. c. 8. Clusius Sabinus had fuch a barren Memory, that sometimes he forgat the name of Uly Res, sometimes of Achilles, sometimes of Priamus, Seneca in Epistol. Atticus the son of Herod the Sophister, could never learn the names of the letters. The Thracians could never count above four. But the greatest VV onder is that Thuan. 1.134 writes of Theodore Beza, that beforc he dyed, when his mind was grown feeble, he forgat things prefent, but what was printed in his Memory afore time, when he had his understanding, that he held; and it continued for two years fo, when he languished. As for wit, that depends on a certain temperament. And it is wonder, that oft-times those are stupid in many things, that are held wife in other things. Themistocles could not so well take as catch counsels. There was one could not learn the Rules of Logick, yet other Arts he could quickly learn, Huartus. For the excellency of it; Janus Drufus, the famous Student, had a fon fo fingular

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gular, that from 15 years old to 20, when he dyed, he writ excellent Commentaries on the Proverbs and other Books. Druf. in prafat. Paralip. in n. 7. Yet the Witof Man cannot reach many things. The force of the Loadstone; flowing of the Sea; the wonderful effects of humours in Man's body; the constitution of his naturall heat; and many more. They have bufied many, but no man hath rightly found them out. The vulgar opinion is, God cannot be comprehended by reason of his Excellency; nor materia prima for its worthles-nesse. Hidden Properties are too loose an Assum for our Ignorance. I will here stopy for so I intend. My purpose was to fet down things most pleasant, to make young Mendelight in Naturall History, and to help those that teach Noblemens children privately. I have inferted many things dombifull, and I have alledged their causes from other mens opinions, to flew, that Nature requires fearching. Nature is fruitfull, and I could not fet down all. Her bounds are fo large, that it is beyond my firength to fearch over all, If what, I have writ be accepted, and I shall have so much ability and opportunity, I shall write an Enchiridion of Naturall History, wherein Nature shall be set forth at large, and in short also. I shall leave the ferutiny to others; whether, and wherefore, things are. But the Supraam over all will provide for these things. To whom be praise and glory to all Ages. Amen.

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